CALIFORNIA
OIL WORLD

PUBLISHED TWICE A MONTH
FOR TIMELY, COMPLETE
CALIFORNIA OIL NEWS COVERAGE

• FIRST ISSUE AUGUST, 1945
VOL. 38 • NO. 15
WHOLE NO. 1685

PETROLEUM PUBLISHERS, INC.
MEMBER AUDIT BUREAU OF CIRCULATIONS
W. C. MONROE—President and Editor

117 WEST 9TH STREET
LOS ANGELES 15, CALIFORNIA
KINZIE MILLER—Vice President

California Oil World is published twice a month at 117 West 9th St., Los Angeles 15, California. Entered as Second-Class Matter, April 29th, 1944, at the post office at Los Angeles, California, under the Act of March 3, 1879. Subscription price $1 per year in U. S. and possessions, $2 in foreign countries including Canada. Member of the Audit Bureau of Circulations.

August 15th, 1945
Telephone Number TUcker 2571

Carrington King, whose Washington Highlights are a regular feature of this publication, is on a well deserved vacation.

Carrington King's complete Washington coverage will again appear in our next or second August issue.

Oil Industry To Get German Process Secrets

Technical information collected from secret records of the German oil industry by the Petroleum Administration for War will be made available immediately to all sections of the American oil industry engaged in the war program, Deputy Petroleum Administrator Ralph K. Davies has announced.

In order to capitalize on German technical developments for the war against Japan, PAW will release through the Technical Advisory Committee of the Petroleum Industry War Council microfilms of documents captured in German refineries and laboratories, he said.

Mr. Davies explained that the microfilms of refinery records and experimental laboratory data were gathered by a mission of technological experts sent to Europe under PAW auspices last year.

The records are still classified as restricted material and, cannot therefore be distributed except on a restricted basis. Only firms that can make use of them in furthering the war program will at this time be entitled to obtain copies.

It is PAW's desire, Mr. Davies pointed out, to make these technical data freely available to everyone interested as a matter of public information, subject only to such restrictions as are imposed by the military or other responsible authorities of government. It is anticipated that in the near future the present restrictions will be relaxed.

"Due to the vast quantity of records collected and the limited staff of the PAW available for this type of work," Mr. Davies said, "the aid of the Technical Advisory Committee has been enlisted to speed up the process of translating and evaluating the records in time to turn German technological brains against the Japanese.

"As additional microfilm records are received, they will be indexed by PAW and duplicates will then be turned over to the Technical Advisory Committee for translation and evaluation. The first indexes already have been sent to the committee, and others will be as they arrive by air from time to time."

Mr. Davies announced that copies of the PAW index of all microfilms received will be distributed as restricted material to all refineries and to other branches of the oil industry able to make use of the data in furthering the war program at the same time that the duplicates are sent to the Technical Advisory Committee. From the index, copies of the microfilms may be ordered on payment of a nominal charge covering the cost of processing.

Meanwhile, the staff of the Technical Advisory Committee will make available summary reports of the various documents as soon as they have been translated and analyzed, the Deputy Administrator said.

The purpose of distributing the index is to give individual companies an opportunity to do their own translation and analysis, or have it done by a research organization of their own choice, without waiting for the summary reports to be issued by the Technical Advisory Committee, he pointed out.

"Although it is too early to make a comprehensive forecast," Mr. Davies stated, "a preliminary survey indicates that the Germans had not developed anything revolutionary in fuels or petroleum products that can be put to immediate use.

"However, their laboratory techniques had been developed to a high degree through extensive research and have revealed several improvements, which will increase accuracy and save considerable time in refining operations.

"For example, the Germans had developed a better method of olefin determination than the one now commonly used in the United States, one which will save several hours in processes used daily in almost every refinery in the country.

"Since 1938, the Germans had been using a method of quantitative nitrogen analysis that in certain phases of refining operations is superior to ours. The German document outlining the process was marked 'Secret', and to our knowledge had never been published in German technical magazines."

While stress is being laid on the phases of the investigation which will yield immediate results in speeding up the war against Japan, the long range value of the captured documents is expected to be great, Mr. Davies said.

These are expected to play an important part in conserving the oil resources of the nation in the future as well as improving methods in many phases of petroleum produc-

(Continued on Page 36)

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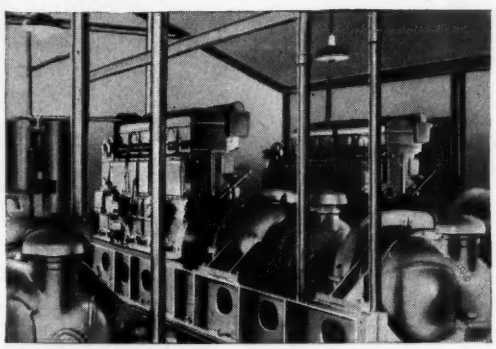
(Continued on Page 36)

IT'S A Time Saver FOR MARINE DRILLING, TOO



Interior of power barge, showing two of the three diesel-driven, 125-kw G-E generators supplying power to a rotary drilling rig. Rig is operated by G-E direct-current motors with generator-voltage control.

When you drill a marine well electrically, the job of rigging-up is speeded considerably. Your derrick floor is smaller; less structural work is required. Instead of building a big, extensive, pile-supported base for your power plant, you put prime movers and generating equipment in mobile barges. Power transmission is simple—you merely string cables between power barges and derrick. Similarly, when you tear-down, the job goes quickly and easily.

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Design of the Goleta Dehydration Plant

By
Richard H. Hull
Pacific Lighting Corp.

AUGUST MEETING

The dehydration plant is located at Pacific Lighting Corporation's compressor plant site in the Goleta gas field, about ten miles west of Santa Barbara, California. Its purpose is the dehydration of the gas which is withdrawn from storage in the field and delivered into the Southern Counties Gas Company's 16-inch 1000 p.s.i.g. line for eventual delivery into the Los Angeles Basin Area.

During the winter, which is the normal withdrawal period, the ground temperatures along the line drop to about 54°F. To prevent water from condensing in the pipeline and also to prevent the probable formation of hydrates, it is necessary to lower the dewpoint of the gas to a point below the ground temperature. The dehydration plant is designed to handle 150,000,000 cu. ft. of gas per 24 hours and to depress the dewpoint approximately 40°F. below the incoming temperature. This incoming temperature is maintained from about 78°F. maximum to 70° minimum. If the temperature were allowed to drop below 70°F. there is the possibility of hydrate formation in the saturated gas ahead of the dehydration plant and consequent freezing of the piping. The gas is processed and delivered into the line near this temperature and the 40° depression gives a resultant dewpoint of about 38°F. maximum which is safely below the ground temperature.

The dehydration plant equipment and piping are designed to operate up to 1050 p.s.i.g. in order that the gas may be processed and metered into the line at 1000 p.s.i.g. The gas enters the dehydration plant and is reduced from field pressure to a pressure of about 1025 p.s.i.g. by means of two regulators operating in parallel. The control pressure on the master regulators is taken from the meters downstream from the dehydration plant. This automatically compensates for plant pressure losses so that it is not necessary to juggle the regulated pressure to try to meet the desired delivery pressure. The regulators operate so that a low volume will be handled by one regulator only, with the second regulator opening automatically and the two equalizing when the first has reached near its capacity. An additional controller

The Author

is set as a safety to prevent the regulators from building the pressure above 1050 p.s.i.g. into the plant.

After the pressure is reduced, the gas passes through cooling coils where it is cooled from field temperature to approximately 78°F. and then through mechanical separators which remove the free condensate. From the separators the gas flows through diethylene glycol contactor towers where it is intimately contacted with the diethylene glycol (called DEG for convenience) which absorbs the water vapor and a portion of the gasoline vapors. From the contactors the dry gas passes through regulators and is metered into the pipeline.

There are three contractor towers operating in parallel. These towers were designed each to handle 50,000,000 cu. ft. of gas per 24 hours at 1000 p.s.i.g. plus a 20% overload factor. The overload factor serves to take care of emergency demand or to, during normal operation, further depress the dewpoint. The contactors are 50-inch in diameter with a net shell length of 33-foot 7-inch, and are built for a working pressure of 1070 p.s.i.g. The gas enters at the bottom of the tower, passes through a baffle-nest which serves to remove any remaining free condensate, rises through a series of four bubble-trays where it is contacted with the DEG and flows out at the top of the tower through a mist extractor tray and a final baffle-nest which removes any DEG which might otherwise carry over with the gas in mist form.

In the outlet line from each contactor there is a motor valve which serves a dual purpose. The primary purpose is to equalize the gas flow through the contactors. This is accomplished by controlling the motor valves with flow equalizer instruments, which in turn are activated by the differential across orifice plates set in the discharge lines from each contactor. The gas lines to and from the contactors are manifolded so that on low volume, 50,000,000 cu. ft. per 24 hours or less, any one of the contactors can be placed in service. As the volume is increased the second and third contactors can be placed in operation as necessary to handle the load. At any time 2 or 3 contactors are in service the flow equalizers operate to divide the load equally between them. The second purpose is to maintain a minimum back pressure of approximately 950 p.s.i.g. on contactors. In case the gas pressure in the line is pulled down unexpectedly the resultant increase in volume and velocity through the contactors would probably carry over the DEG with the gas stream and might even be great enough to damage the bubble-trays due to the high differential across them. By holding a high minimum downstream pressure, the back pressure controllers prevent any large pressure drop through the vessels.

GOLETA DEHYDRATION PLANT - FLOW DIAGRAM
REFLUX CONDENSER COIL
RECTIFIER
HOT D.E.G.
VAPORS
D.E.G. REBOILER
TO GASO. SEPARATOR
GASO.
WASTE WATER
COOLING TOWER
VAPOR CONDENSER
ACCUMULATOR
VACUUM TRAP
NO. 3 CONTACTOR
GAS
STEAM EXH. STACK
D.E.G. COOLING COILS
D.E.G. TO FILTER
HOT D.E.G.
PREHEATER
D.E.G.
D.E.G.
D.E.G. EXCHANGERS
LIVE STEAM
NO. 2 CONTACTOR
EXH. STEAM
NO. 1 D.E.G PUMP
NO. 1 CONTACTOR
NO. 2 PUMP
D.E.G. FILTER
D.E.G. CONTROL TK.
NO. 3 PUMP
D.E.G. SEPARATOR
GASO.
D.E.G.
BOILER BLOW-DOWN STACK
BOILER FEED WATER TANK
BOILER FW. PUMP
CONDENSATE
COLD D.E.G.
LIVE STEAM
D.E.G. STORAGE TK.
D.E.G. TO PUMPS
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STEAM
105 H.P. STEAM BOILER
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FUEL FROM COMB. PLANT

WHEREVER gas is used in the oil fields, you will find Reliance Regulators on the job, contributing their part to the ever growing output of petroleum.

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Reliance Regulators are available for many types of oil field installations and in a complete range for every type of service.

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The DEG, combined with water and gasoline, from each contactor flows out in a 16-inch diameter by 13-feet 0-inches float tank in which the proper level is maintained by means of a liquid level controller. From the individual float tanks the liquid streams are combined and pass into a gasoline separator tank. Here most of the gasoline separates from the DEG and is drained off through a trap to gasoline storage tanks. A certain amount of wet gas entrained in the DEG from the contactors is also released in the separator. This gas combined with gasoline vapors is released at the top of the vessel through a back pressure regulator and is piped into the boiler fuel system. The DEG and water mixture are drawn from the bottom of the separator through a motor valve controlled by a liquid level controller, which has its float set at the interface between the DEG surface and the gasoline in the tank. It is then piped into a series of heat exchangers consisting of three parallel banks, each containing five G-Fin exchangers. From the line between the separator and the heat exchangers a portion of the cold DEG is by-passed through a coil in the top of the rectifier and then is returned to combine with the main stream into the exchangers. The cold coil in the top of the rectifier condenses rising vapor which serves as a reflux. In exchange the DEG passing through the coil absorbs an equal amount of heat. In the exchangers the DEG receives its first stage of heating from counter-flowing hot DEG returning from the rectifier to storage. The warmed DEG then passes through a set of pre-heaters, consisting of two parallel banks, each containing three G-Fin exchangers, where it is heated by steam to a temperature sufficient to evaporate the entrained water and any remaining small amount of gasoline. The outgoing temperature of the DEG is controlled by a temperature operated motor valve set in the steam line to the pre-heaters with a control bulb in the DEG line. This motor valve can be set to maintain any desired temperature in the DEG and it achieves this result by increasing or decreasing the quantity of steam admitted to the pre-heaters.

From the pre-heaters the flashing mixture of DEG and water vapor is piped into the rectifier, or still. This is a column 26-inches in diameter by 29-feet 10-inches net shell length, built for working pressure of 50 p.s.i.g., which contains 14 bubble-trays and 6 trays of other types. Most of the water vapor is separated from the DEG in the bubble-trays when it first enters the column. The lean DEG is then drawn off and passed through a reheater, which is a 13-inch by 10-feet 0-inches horizontal shell and tube type of heat exchanger, where its temperature is again raised by steam to a point where any remaining water is vaporized. The temperature of the DEG from the reheater is fixed by a temperature control regulator set in the steam line to the reheater with the control bulb in the outgoing DEG line. From the reheater the DEG is returned to the lower part of the rectifier to allow this final vapor to escape.

The water vapors, which are driven off in the rectifier, rise through the column and when they contact the cold condenser coil in the top, a portion of them are condensed as a reflux. The balance of the vapors are released through a back pressure regulator which maintains the desired operating pressure on the vessel. These vapors are then condensed in a set of air-cooled fin tube exchangers and the liquid collected in an accumulator. Here the quantity of liquid can be checked and it can be tested for any content of DEG, gasoline, etc., which might carry over with the vapors, thus showing whether or not the rectifier is properly operating. The hot lean DEG is released from the bottom of the rectifier through a motor valve operated by a liquid level controller, flows through the DEG heat exchangers where it imparts heat to the incoming cold DEG-water mixture, and then is piped to a storage tank.

In order to remove any dirt, carbon, etc., which may accumulate in the DEG, the line between the reheater and the rectifier is tapped and a small stream of DEG is drawn off and passed through a filter. This filtered DEG is then piped directly to the storage tank.

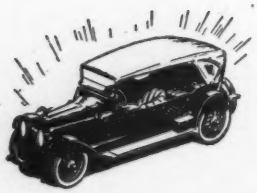
The DEG is drawn from the storage tank by three steam engine driven 1½-inch by 2-inch vertical triplex pumps, operating in parallel. It is pumped through 3 parallel banks of atmospheric cooling sections where it is cooled to approximately the temperature of the gas being treated, and then enters the contactors through indicating flow meters.

There are two manifolds in the DEG piping, one at the pump discharge and one in front of the contactors, which make the DEG system completely flexible. Normally each pump puts liquid directly through one bank of coils and into one contactor with the volume being determined by the speed of the pump. However, in case any pump, bank of coils, or contactor must be out of service the manifold system allows any of the pumps to put DEG through any of the coils into any of the contactors. In case the DEG streams have to be combined, as in the case of two pumps serving three contactors, the liquid is separated in the manifold at the contactors and the flow equalized into the vessels by means of the indicating flow meters. Since the volume of liquid handled by any of the pumps can be varied as much as 50% above or below normal flow by changing the pump speed, it is unnecessary to have additional standby pumps to take care of emergency shutdowns for repairs, etc., as it would be quite unlikely that more than one pump would be out of service at any one time.

Steam for heating and for operating the pumps, engines, etc., is generated in a 1050 sq. ft. HRT boiler, operating at 150 p.s.i.g. and giving a resultant steam temperature of approximately 366°F. The boiler fuel is automatically controlled from the boiler pressure by means of a pilot operated motor valve set in the fuel line. An additional motor valve set in the fuel line serves as a safety valve and automatically cuts off the fuel in case of too high or too low water level in the boiler. The pilot of the safety shut-off valve is activated by steam pressure from a float valve in the boiler water column. At the same time the safety shut-off is closed a whistle is blown to warn the operator.

The boiler feed water pump is a steam driven horizontal duplex

How good is the best?



1. In 1915, this $4,850 touring car was a good automobile—one of the best money could buy. In 1915, Union Oil made a good line of greases—8 different types "to meet every lubrication need." Today, the lowest-priced cars are far better than that 1915 car. And they sell for about ¼ as much.

2. Today, Union Oil makes 78 different greases for industry instead of 8! And their quality is equally superior. This doesn't mean the car manufacturers and ourselves weren't doing the best we knew how in 1915. But it does prove the value of *competition.*

3. After all, people were quite satisfied with 1915 automobiles and greases—in 1915. If no improvements had been introduced *we'd be satisfied with them today.* For we'd know of nothing better to compare them with. But fortunately the manufacturers weren't satisfied. Not that they were any more idealistic than the average citizen.

Number of different greases made by Union Oil	
1915	8
1930	49
1945	78

4. But each one knew that if he could put out a little bit better product than his competitors, he could *get more business.* So they all kept racking their brains for improvements. Progress, from year to year, was gradual—as it always is. But in 30 years, these combined improvements made a phenomenal total.

5. As a result, the American oil and automotive industries today have completely outstripped the rest of the world. No monopoly—private or governmental—could have accomplished as much. For there simply aren't the *incentives* to better your product when you already control all the trade.

6. So as long as there's still room for improvement in an industry, the only way to guarantee *maximum progress* is to have an economic system that guarantees *maximum incentives.* Our American system provides these to a degree no other system has ever approached.

UNION OIL COMPANY
OF CALIFORNIA

This series, sponsored by the people of Union Oil Company, is dedicated to a discussion of how and why American business functions. We hope you'll feel free to send in any suggestions or criticisms you have to offer. Write: The President, Union Oil Company, Union Oil Bldg., Los Angeles 14, Calif.

AMERICA'S *FIFTH* FREEDOM IS FREE ENTERPRISE

pump. The speed of the pump is controlled by a pilot operated motor valve in the steam feed line, activated by a liquid level controller on the boiler. All condensate from the main steam line, headers, preheaters, and re-heater is returned to the boiler feed water tank. The only waste steam is that exhausted from the engines driving the DEG pumps. This steam is wasted because of the fact that it might contain some slight oil content from the engines, and the quantity is so small that it was not considered worthwhile to install equipment which would guarantee positive separation.

All condensate removed from the gas by traps or separators or by contact with the DEG is piped to a gasoline water separator. Here the water is drawn off through a motor valve operated by an interface liquid level controller, and is piped into a waste water system. The gasoline is trapped off and put into storage.

All pressure vessels in the plant are designed and built in accordance with the API-ASME code for unfired pressure vessels. All piping is designed in accordance with ASA Code for Pressure Piping, listed as ASA B31. 1-1942, the gas piping being designed under Division 1 of "Gas and Air Piping Systems."

All controls, automatic devices, safety equipment, etc., are either pressure or temperature operated. This makes the plant completely independent of any electrical service, except for lighting purposes. This is advantageous in that the demand for the plant is in the wintertime when due to storms, etc., there is more likelihood of electrical failures in the rural systems.

Dunham Joins Falcon

William A. Dunham, back in civilian life after nearly five years in the Army, will represent Falcon Products, Inc. in the San Joaquin valley territory, according to an announcement by H. F. Schlittler, general manager of the Company.

Bill Dunham began selling oil tools in 1933 and had gained a wide acquaintance among California oil operators by the time he went into the service in 1940. He served in the North Africa and Sicily campaigns, and progressed up the Italian boot to a point above Rome. Now he is looking forward with pleasure to a less exciting, but safer, life of selling Falcon slush pump liners, piston rods, E-Z Out liner sleeves and other products from Castaic northward.

Nomads' Wing Ding Big Success

Nearly four hundred Nomads and guests were in attendance at one time or another during the Sixth Annual Wing Ding of the Los Angeles Chapter of Nomads held at the Rivera Country Club on Friday, July 27, 1945. To say that the affair was a success is putting it mildly. During the afternoon a golf tournament was held and over 130 participated in this event. Pictures of many of the threesomes, foursomes and what-have-you are given on pages 18, 19, 21, and 22. Prizes consisting of merchandise orders were awarded the winners after the dinner which started at 8 o'clock.

Starting at four o'clock games of alleged skill were played and those wnining the greatest amounts of stage money they used were later presented with valuable prizes. It took a cute little accordian player and the loud persuasive voices of the committee to drag the gang into dinner. After dinner and the awarding of the prizes an elaborate stage show was presented.

Rail shipments of West Texas crude oil to California, which have been showing an upward trend in recent weeks, hit a new high of 40,020 barrels daily for the week ending August 4.

The above photograph was taken within a few minutes after the Macoil Company's Banning No. 7, West Newport, Orange County, sec. 19-6s-10w, was brought under control. It took just fourteen hours to accomplish this and the job was done by the Fowler Drilling Company, contractors for the Macoil Co.
Total depth of the hole was 1955 ft. with 13¾" casing cemented at 200 ft. and 8⅝" casing was cemented at 1829 ft. Top of the "B" zone was 1840 ft. 115 ft. of saturated oil sand. 5½" x 7" travel packed liner 1840 ft. to 1955 ft. The liner was being washed prior to running tubing and rods. The hole was full of fluid and stands of 4" drill pipe remained to be removed when the well started to flow. Within one minute oil and gas were flowing over the crown block.
The casing was equipped with a Hosmer head which furnished a little control of the well. The well was brought under control by stabbing a goose neck joint on to the drill pipe. The flow of fluid was thus directed to the mud pit. Later a connection was made to the pumps and the well was killed by pumping fluid into the hole through the drill pipe.

Something to Come Home to

If you could grant wishes like Cinderella's fairy godmother—so someone recently said—here are requests you'd get from the armed forces. No. 1: "Please, I'd like to go fishing." No. 2: "Please let me go hunting." No. 3: "Be real swell and fix it up for me to spend three months in the mountains."

That's easy to believe. Few things are so different as life in a fox-hole and life along a trout stream. It's a world of no enemies when you're out among the shreds of dawn, with molten ice tugging your ankles—and a ten-inch rainbow at the end of your line.

One reason good hunting and fishing—indeed, a whole good outdoors—awaits every returning western warrior can be found in the many rod and gun clubs. For men who love air swept clean by treetops and laundered in glacier water, these clubs have been guardians of the future.

They've fulfilled a volunteer stewardship with constant efforts to improve every stamping-ground of the sportsman. Their interest has helped break new trails everywhere into the outdoors—and to widen old ones. Progressive fish and game commissions have found them aiding every advanced program.

Whether man or woman, every westerner has something of the woodsman's heritage. Whether it's skiing or shooting or just loafing under the clear stars, every westerner loves some form of outdoor life. For everyone of them, the rod and gun clubs have guarded the land where mornings are born and the heart sings.

STANDARD OF CALIFORNIA

E flag with 4 stars, awarded to our Richmond Refinery

Waukesha Motor Advances Loebl and Wilson

In carrying out an expanded service program developed by Ortman Pederson, Service Manager of Waukesha Motor Company, Herman J. Loebl has been appointed Manager of Distributors' Service-Sales, a new department; and Harvey R. Wilson is advanced to the post of Assistant Service Manager.

H J. LOEBL

Mr. Loebl has followed customer-relations-through-service operations for almost thirty years.

During his seventeen years with the Waukesha Motor Company he has been in direct charge of field and factory branch service as Executive Assistant to the Service Manager. He has also acted as Passenger Traffic Manager.

Prior to becoming associated with Waukesha Motor Company in 1928 he was Assistant Branch Manager in Boston, and, later, General Service Manager of Sterling Motor Truck Company at their factory in Milwaukee.

Waukesha's new department, now headed by Mr. Loebl, will provide closer customer cooperation through field service so that factory facilities, methods and standards may be brought within quick, easy reach of all owners and operators of Waukesha-power equipment.

Mr. Wilson has been a part of Waukesha's service organization ever since his graduation in 1927. Advancing from Service Stock Room through Stock Control, Cost and Pricing, he was Manager of Service at the Waukesha Motor San Francisco Branch from 1932-1936, returning to the factory at Waukesha to supervise Field Service Engineers, he later became assistant to Mr. Loebl.

With the sudden and rapid expansion of the armed forces spare parts business, he was put in complete charge of this special phase of service activities in 1943.

Now called from this post to be Executive Assistant to Service Manager Pederson, as Assistant Manager of Service he will have direct supervision of all operational functions of the Service Department relating to any customer requirement of whatever nature.

Service Distributors

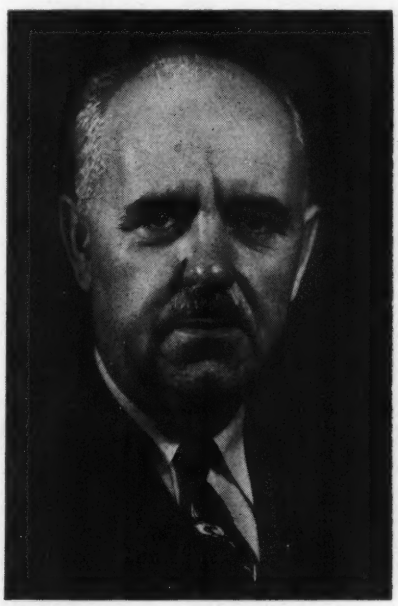
The establishment of the new department headed by Mr. Loebl is a departure from former Waukesha Policy brought about by the wartime experience which resulted in a wide scattering throughout the United States of construction equipment, dock-side loading equipment, and many special power plants, all employed in the war emergency. Parts depots, factory trained mechanics, and near-by repair and overhaul facilities, wherever they were located, greatly helped in speeding and maintaining these field units.

H. R. WILSON

Waukesha's present list of Authorized Parts and Service Distributors will be doubled within a short space of time, and in addition to the sale of Genuine Repair Parts, these same outlets will stock and sell complete Power Units ranging in size from 5 HP to 200 HP and suitable for gas, gasoline, diesel oil, tractor distillates or kerosene.

Atkins Represents Rector

The appointment of Earle R. "Pop" Atkins as California representative for the Rector Well Equipment Company, Fort Worth and Houston, Texas, is made by L. L. Rector, president and general manager of the company. Mr. Atkins has offices in the W. W. Wilson Building, Huntington Park California. Among the products manufactured by the company are the well known Rector Wells Heads and Rectorseal. Sales policies as established by the company in the Texas and Mid-Continent fields will be maintained by Mr. Atkins in industrial sales, as well as the sale of oil field equipment.



EARLE R. ATKINS

ANNUAL DIRECTORS' LUNCHEON, CALIFORNIA NATURAL GASOLINE ASSOCIATION, LOS ANGELES ATHLETIC CLUB, July 17, 1945. Around table, left to right, beginning at end of table: R. W. Heath, Signal Oil & Gas Co.; William Moeller, Jr., Southern California Gas Co.; P. S. Magruder, General Petroleum Corp. of Calif.; R. C. Enderly, Wilmington Gasoline Co.; H. E. Moulton, C. C. M. O. Co.; W. A. Kirk, Calif. Southern Oil Co.; John C. Herron, Shell Oil Co., Inc.; C. L. Hutchings, Tide Water Associated Oil Co.; D. M. Wolfe, Standard Oil Co. of Calif.; R. S. Tulin, Shell Oil Co. Inc.; A. H. Bell, Continental Oil Co.; A. K. Hegeman, Clark Bros. Co. Inc.; H. L. Eggleston, General Petroleum Corp. of Calif.; H. R. Linhoff, Richfield Oil Corp.; G. L. Tyler, C.N.G.A.; C. D. Gard, Union Oil Co. of Calif.; M. L. Arnold, Richfield Oil Corp.; M. W. Kibre, General Petroleum Corp. of Calif.; J. S. Fluor, The Fluor Corp., Ltd.; W. W. Robinson, Jr., The Texas Co.; E. A. Brock, Southwest Welding & Manufacturing Co.; Coles B. Bason, Ingersoll-Rand Co.; E. W. McAllister, Western Gulf Oil Co.; H. M. Paulsen, Bankline-Norwalk Co.; W. C. Dayhuff, California Research Corp.; H. W. Parmelee, Del Valle Gasoline Co.; W. L. Rifenberick, Industrial Engineers, Inc.; J. B. Taylor, Signal Oil & Gas Co.; Harry Ransford, Signal Oil & Gas Co.

M.
Pre
Go

FIRST

M. L. Arnold Elected President California Natural Gasoline Association

With more than 20 years experience in the natural gasoline business M. L. Arnold has a thorough knowledge of the industry's problems and ambitions that should stand him in good stead during his term of office as President of CNGA.

One of the original members of the Association (joining up July, 1926), Mr. Arnold has seen this group of live-wire gasoline men grow from a mere handful of individuals pioneering in a new industry to a powerful and respected organization, whose members have contributed generously of their time and talents to advancement of the natural gasoline industry .

Born in Missouri, Mr. Arnold moved at an early age to Western Oklahoma, winding up his educational pursuits at the University of Oklahoma where he graduated in 1923 with a B.A. in Chemistry.

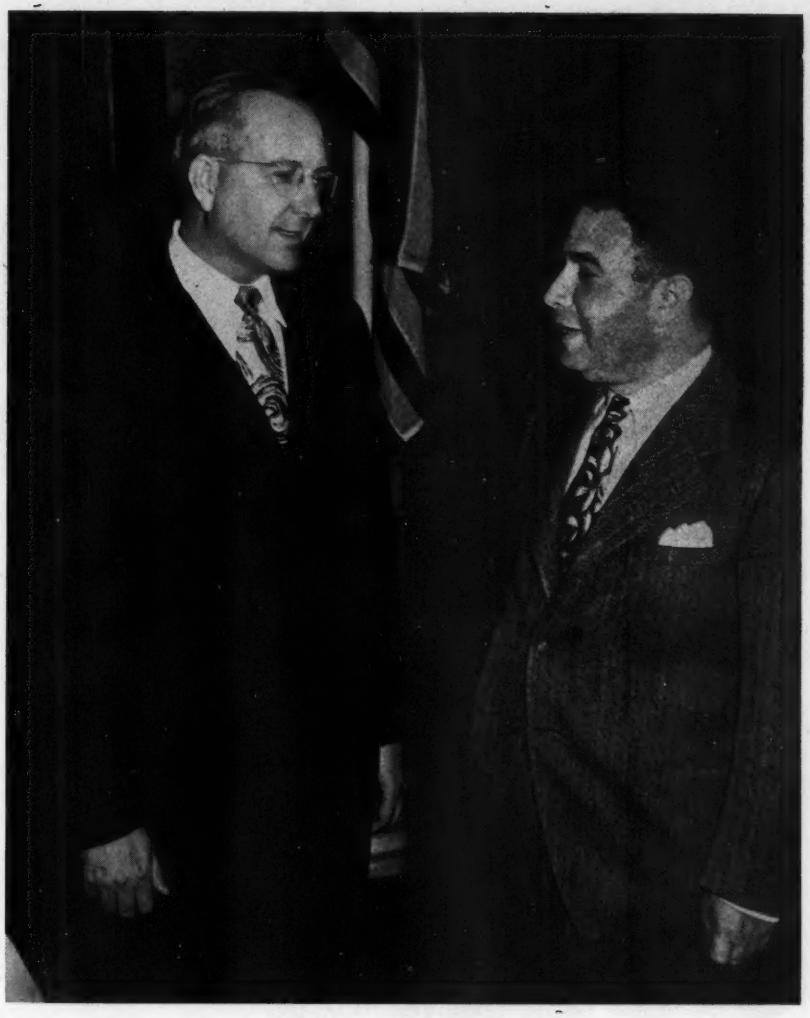
Having spent most of his young life in so famous an oil producing State as Oklahoma, it would be only natural to suspect him of having his mind set on a career in the oil business but curiously enough, says Mr. Arnold, he had to move to California to see his first oil well.

Soon after his arrival, however, he lost no time in making his way down to Signal Hill where he got a job with the Signal Hill Gasoline Company as a chemist.

In 1927, this Company having merged with the Richfield Oil Corporation, Mr. Arnold continued with Richfield advancing through various jobs of plant operator, plant foreman, gas tester, chief chemist to his present position of Chief Engineer of the Gas Department.

A Director of the Association since 1940, as well as Vice-President in 1944, Mr. Arnold has also served on its Technical and Charcoal Test Committees and is the author of a paper entitled "Vibration in Compressor Plant Piping" published recently in leading oil journals.

Mr. Arnold is a member of the American Chemical Society as well as Alpha Chi Sigma, Professional Chemical Fraternity.



New C.N.G.A. President M. L. Arnold (left), Richfield Oil Corp., talking with M. W. Kibre, General Petroleum Corp., vice-president elect of California Natural Gasoline Association.

He is married, has two children, a boy and a girl, and makes his home in Long Beach.

M. W. Kibre Elected Vice-President C.N.G.A.

M. W. Kibre, Assistant Manager of the Gas Department of General Petroleum Corporation and recently elected Vice-President of the California Natural Gasoline Association, has been a member of CNGA since 1929.

Completing his studies in Chemistry and Engineering at the University of California, Mr. Kibre spent a short time as a Chemical Engineer before entering the oil business as a laboratory man for General Petroleum at Santa Fe Springs.

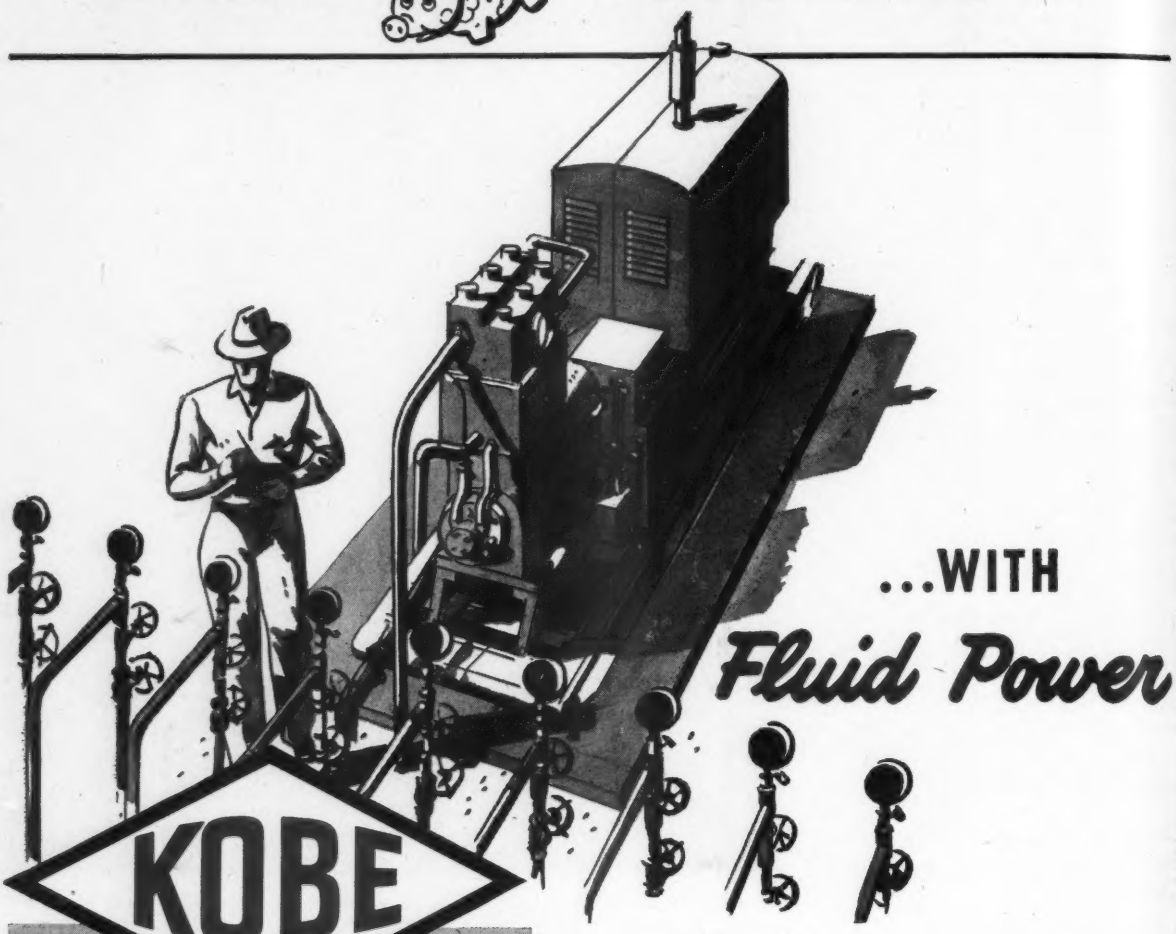
Later he was promoted to the position of Chemist and afterwards transferred to Vernon as an Engineer in the Gas Department.

In 1943 he became Superintendent of the Department, in January 1944 General Superintendent, and recently the Company announced Mr. Kibre's appointment as Assistant Manager of the Gas Department.

Mr. Kibre has been active in Association affairs, having served as Chairman of CNGA's Technical Committee, Fall Meeting Committee and a member of its Charcoal Test Committee.

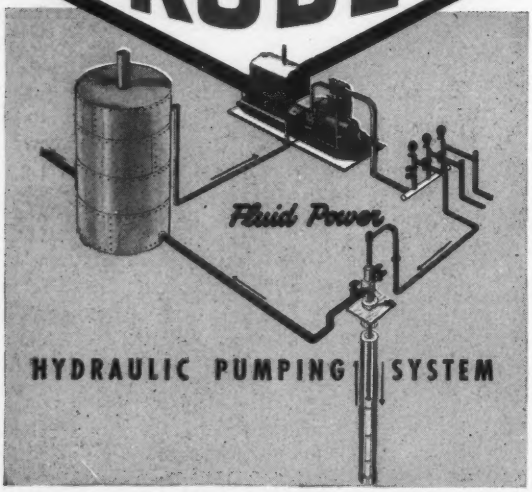
He is married, makes his home in Whittier, and has a daughter just entering high school.

SAVE HORSES



...WITH *Fluid Power*

KOBE



KOBE, Incorporated. *General Offices & Plant: 3040 East Slauson Ave., Huntington Park, Calif. • Mid-Continent Division Offices and Shops: 230 S. E. 29th St., Oklahoma City, Okla. • California Division Offices: 217 Wilson Bldg., Huntington Park, California • Export Agent: Petroleum Machinery Corporation, 30 Rockefeller Plaza, New York, N.Y.*

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BECAUSE of the nigh efficiency of Hydraulic operation, Kobe Pumping Systems generally effect important savings in horsepower. This means less engines to service, fewer repairs and less lubricating and fuel costs.

Kobe Pumping saves horsepower on those leases where wells start to make large quantities of water. When fluid volume thus increases more power may be developed from initially installed Triplexes, or if needed more Triplexes may be added.

This is all possible because of Fluid Power, which can be simply increased or decreased by adding or subtracting surface power units—easily transported on the conventional lease truck—while the same units can be as well used on a 12,000 foot well as on a 2,000 foot well.

Kobe Hydraulic Pumping Systems provide better pumping knowledge as reflected in constantly known pumping efficiencies, fluid levels and bottom-hole pressures. It insures minimum field effort and concentration of servicing and operating control at one central location. This is known as Multiple-Well operation and *ONLY KOBE* can provide this time and money saving feature. Contact your nearest Kobe representative today for full and complete details on Kobe, the modern way to pump oil wells.

PUMP THE MODERN WAY—USE KOBE

Officers and Directors of the California Natural Gasoline Association for the Fiscal Year 1945-46

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M. W. KIBRE, General Pet. Corp., Vice President
DIRECTORS

M. L. ARNOLD, Richfield Oil Corporation
A. H. BELL, Continental Oil Company
A. H. BRADFORD, West Coast Refining Co.
J. A. CAMPBELL, J. A. Campbell Co.
L. V. CASSADAY, Lomita Gasoline Co.
F. J. COLTON, Tide Water Associated Oil Co.
F. E. COYLE, Tide Water Associated Oil Co.
D. A. CUSHMAN, Fullerton Oil Company
W. C. DAYHUFF, California Research Corp.
F. F. DOYLE, Pacific Gas & Electric Co.
R. C. ENDERLY, Wilmington Gasoline Co.
O. C. FIELD, Fullerton Oil Company
J. S. FLUOR, The Fluor Corporation, Ltd.
M. L. FORT, Pacific Lighting Corporation
R. E. FOSS, Barnsdall Oil Company
C. D. GARD, Union Oil Co. of Calif.
R. D. GIBBS, Union Oil Co. of Calif.
R. W. HEATH, Signal Oil & Gas Co.
A. K. HEGEMAN, Clark Bros. Co., Inc.
J. C. HERRON, Shell Oil Co. Inc.
M. W. KIBRE, General Petroleum Corp. of Calif.
W. A. KIRK, Calif. Southern Oil Co.
W. H. KRAFT, Honolulu Oil Corporation
H. R. LINHOFF, Richfield Oil Corp.
R. S. LYTLE, Operator
S. F. MAGOR, The Superior Oil Company
P. S. MAGRUDER, General Pet. Corp. of Cal.
G. C. McLAREN, Standard Oil Co. of Calif.
E. W. McALLISTER, Western Gulf Oil Co.
WM. MOELLER, Jr., Southern Calif. Gas Co.
H. E. MOULTON, C. C. M. O. Company
N. H. MULL, The Texas Company
H. W. PARMELEE, Del Valle Gasoline Co.
H. M. PAULSEN, Bankline-Norwalk Co.
W. L. RIFENBERICK, Industrial Engineers, Inc.
W. W. ROBINSON, Jr., The Texas Company
J. H. SARGENT, Kettleman North Dome Assn.
W. D. SMITH, Wilshire Oil Company
GEORGE SOWARDS, The Ohio Oil Company
T. L. TAGGART, Standard Oil Co. of Calif.
J. B. TAYLOR, Signal Oil & Gas Co.
R. S. TULIN, Shell Oil Co., Inc.
J. B. WHARTON, Belridge Oil Company
R. C. WHEELER, General Pet. Corp. of Cal.
D. M. WOLFE, Standard Oil Co. of Calif.

TAFT CHAPTER CHAIRMAN

E. C. SPENCER, The Norwalk Company

TAFT CHAPTER SECRETARY

GEO. F. HOWELLS, Tide Water Associated Oil Co.

California Natural Gasoline Association Roster of Committees

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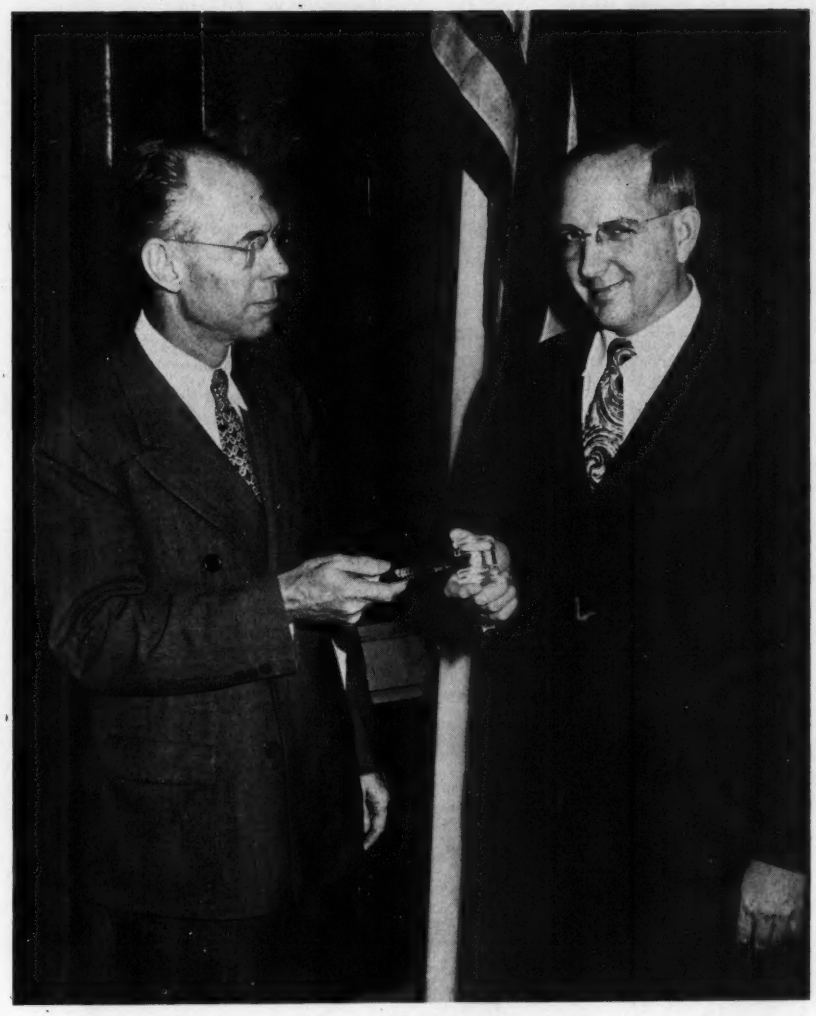
M. L. Arnold, Chairman, Richfield Oil Corp.
M. W. Kibre, Vice Chairman, General Pet. Corp.
Past Presidents:
Cassaday, L. V., Lomita Gasoline Co.
Dayhuff, W. C., Calif. Research Corp.
Eggleston, H. L., General Pet. Corp.
Field, O. C., Fullerton Oil Co.
Gard, C. D., Union Oil Co.
Garman, R. W., Pet. Admr. for War.
Gibbs, R. D., Union Oil Co.
Heath, R. W., Signal Oil & Gas Co.
Linhoff, H. R., Richfield Oil Corp.
Magruder, P. S., General Pet. Corp.
Mull, N. H., The Texas Company
Robinson, W. W., Jr., The Texas Company
Taggart, T. L., Standard Oil Co.
Wheeler, R. C., General Pet. Corp.
Class "A"
Colton, F. J., Tide Water Assoc.
Kraft, Warren, Honolulu Oil Corp.
McAllister, E. W., Western Gulf Oil Co.
McLaren, Geo. C., Standard Oil Co.
Moulton, H. E., C. C. M. O. Co.
Sowards, George, Ohio Oil Company
Taylor, J. B., Signal Oil & Gas Co.
Tulin, R. S., Shell Oil Co., Inc.
Class "B"
Fluor, J. S., The Fluor Corp., Ltd.
Kirk, W. A., Calif. So. Oil Co.
Moeller, Jr., Wm., So. Calif. Gas Co.

ADVISORY COMMITTEE

Kibre, M. W., Chairman, General Pet. Corp.
Gard, C. D., Union Oil Co.
Heath, R. W., Signal Oil & Gas Co.
Linhoff, H. R., Richfield Oil Corp.
Magruder, P. S., General Pet. Corp.
Moeller, Jr., Wm., So. Calif. Gas Co.
Tulin, R. S., Shell Oil Co., Inc.

FINANCE AND BUDGET COMMITTEE

Heath, R. W., Chairman, Signal Oil & Gas Co.
Arnold, M. L., Richfield Oil Corp.
Kibre, M. W., General Pet. Corp.
McLaren, G. C., Standard Oil Co.
Tyler, Geo. L., C. N. G. A.



Outgoing C.N.G.A. President, C. D. Gard, Union Oil Co. of Calif., (left) presents gavel to incoming C.N.G.A. President, M. L. Arnold, Richfield Oil Corporation at Annual Directors' Luncheon, California Natural Gasoline Association, July 17, 1945.

ENTERTAINMENT COMMITTEE

Brock, E. A., Chairman, So. West Weld. & Mfg.
Gesner, Jim, Reliance Regulator
Mettling, Phil, Cooper-Bessemer Co.
Munoz, Carlos, The Fluor Corp., Ltd.
Rees, Ted, Stone & Webster Egr.
Baxter, Harold, Parkhill-Wade

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Bason, Coles, Chairman, Ingersoll-Rand Co.
Armstrong, Harold, The Lummus Co.
Armstrong, Paul L., Union Steam Pmp. Sales.
Hill, Hal G., General Elec. Co.
Frederick, Geo., Fisher-Governor Co.
Dresser, Harold, The Fluor Corp., Ltd.
Dumm, Ben, Allied Supply Co.

FALL MEETING COMMITTEE

Rifenberick, W. L., Chairman, Ind. Engrs., Inc.
Brock, E. A., So. West Weld. & Mfg.
Gotterba, C. E., Richfield Oil Corp.
Kibre, M. W., General Pet. Corp.
Hartley, Fred L., Union Oil Co.
Hutchings, C. L., Tide Water Associated
Ridgway, R. S., Standard Oil Co.
Tyler, Geo. L., C. N. G. A.

PROGRAM COMMITTEE

Arnold, M. L., Chairman, Richfield Oil Corp.
Dayhuff, W. C., Calif. Research Corp.
Hill, H. C., General Electric Co.
Hill, P. W., Signal Oil & Gas Co.
McAllister, E. W., Western Gulf Oil Co.
Quarnstrem, A. A., Richfield Oil Corp.
Tyler, Geo. L., C. N. G. A.

PUBLICITY COMMITTEE

Ransford, Harry, Chairman, Signal Oil & Gas Co.

GAS REPORT COMMITTEE

Moeller, Jr., Wm., Chairman, So. Calif. Gas Co.
Linhoff, H. R., Richfield Oil Corp.
Taylor, J. B., Signal Oil & Gas Co.
Tulin, R. S., Shell Oil Co., Inc.
McIlvaine, Mark, C. C. M. O. Co.
Reetz, L. F., Pac. Gas & Elec.
Valby, E. P., Richfield Oil
Woodruff, L. E., The Texas Co.

List of Technical Committee and Technical Sub-Committee Personnel

TECHNICAL COMMITTEE

Hutchings, C. L., Chairman, Tide Water Assoc.
Valby, E. P., Vice Chairman, Richfield Oil Corp.
Boyd, T. F. G., Union Oil Company
Bradley, F. E., C. C. M. O. Co.
Carbiener, Gail, K. N. D. A.
Childs, R. F., Standard Oil Co.
Church, M. R., Shell Oil Co., Inc.
Corfield, Guy, So. Calif. Gas Co.
Crippen, R. R., The Texas Co.
Hill, P. W., Signal Oil & Gas
Hubbel, M. S., Lomita Gasoline
Johns, D. B., Calif. Research
Lack, L. L., Shepard-Pendleton
Lyles, A. C., General Pet. Corp.
Peter, Clyde, Belridge Oil Co.
Ryan, G. P., Oilfield Testing
Squire, E. J., Shell Oil Co., Inc.
Walker, E. W., Western Gulf Oil
Welch, Melroy, Barnsdall Oil Co.

GAS MEASUREMENT COMMITTEE No. 1

Cortelyou, J. T., Chairman, So. Calif. Gas Co.
Cowan, W. L., Union Oil Company

LOW TEMPERATURE FRACTIONAL ANALYSIS COMMITTEE No. 2

Schaufelberger, W. M., Chairman, Calif. Research
Anderson, D. W., The Texas Company
Boyd, T. F. G., Union Oil Co.

Fogo, J. K., So. Cal. Gas Co.
Icenhower, R. L., Richfield Oil Corp.
Kendig, R. C., Shell Oil Co., Inc.
Shafer, E. E., Jr. Gas Research & Eng.
Spencer, J. R., Tide Water Assoc.
Wright, W. R., General Pet. Corp.
Warneke, W. W., C. C. M. O. Co.

PHYSICAL CONSTANTS COMMITTEE No. 5

Woodruff, L. E., Chairman, The Texas Company
Crocker, L. H., General Pet. Corp.
Horne, George, Richfield Oil Corp.
Johns, D. B., Calif. Research Corp.
McCartney, E. R., The Fluor Corp., Ltd.
Squire, E. J., Shell Oil Co., Inc.
Stevenson, D. G., So. Calif. Gas Co.

CHARCOAL TEST COMMITTEE No. 6

Boyd, T. F. G., Chairman, Union Oil Company
Adams, J. E., Signal Oil & Gas
Allen, R. J., General Pet. Corp.
Bradbury, Fred, K. N. D. A.
Colvin, Jack, Fullerton Oil Co.
Crane, W. F., Pacific Western
Forster, G. H., The Texas Co.
Hansen, J. T., Standard Oil Co.
Hayes, R. C., Union Oil Company
McIlvaine, Mark, C. C. M. O. Co.
Ridder, Hal, Shell Oil Co.
Smith, C. J., Western Gulf Oil
Valby, E. P., Richfield Oil Corp.

LIQUEFIED PETROLEUM GAS COMMITTEE No. 9

Childs, R. F., Chairman, Standard Oil Co.
Boyd, T. F. G., Union Oil Company
Gallagher, J. S., The Texas Company
Hill, P. W., Signal Oil & Gas
Kerr, A. N., Imperial Gas Co.
Maass, Randal, General Pet. Corp.
McCartney, C. E., Petrolane, Ltd.
Quarnstrom, A. A., Richfield Oil Corp.
Parkhill, C. L., Parkhill-Wade
Smith, Turner, General Pet. Corp.
Squire, E. J., Shell Oil Co., Inc.

EDITORIAL & REVISIONS COMMITTEE No. 10

Multer, H. J., Chairman, Union Oil Company
Allen, R. J., General Pet. Corp.
Bradley, F. E., C. C. M. O. Co.
Brebner, C. C., Tide Water Assoc.
Childs, R. F., Standard Oil Co.
Crippen, R. R., The Texas Company
Horne, George, Richfield Oil Corp.

STANDARDIZATION OF ORSAT ANALYSIS METHOD No. 14

Montague, R. A., Chairman, Standard Oil Co.
Adams, J. E., Signal Oil & Gas
Alfson, H. R., General Pet. Corp.
Boyd, T. F. G., Union Oil Company
Escobar, W. E., The Texas Company
Fogo, J. K., So. Calif. Gas Co.
Kendig, R. C., Shell Oil Co., Inc.
Icenhower, R. L., Richfield Oil Corp.
Senatoroff, N. K., So. Counties Gas Co. & Pac Lightg. Corp
Shafer, E. E., Jr., Gas Research & Eng.
Spencer, J. R., Tide Water Assoc.
Warneke, W. W., C. C. M. O. Co.

New Gasoline Assn. Members

Dana Hogan, Hogan Pet. Co.; D. L. Seymoure, Superior Oil Co.; L. F. Beach, So. California Gas Co.; and L. V. Leonard, Shell Oil Co., have been elected members of the California Natural Gasoline Association.

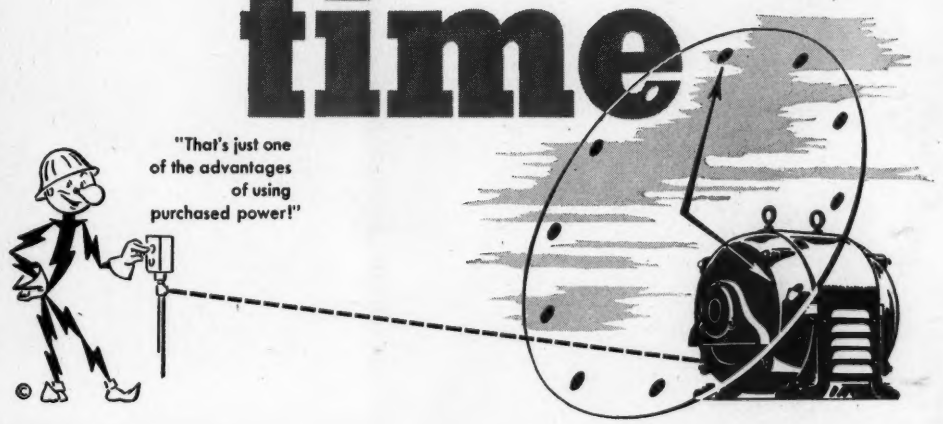
Kelite Issues Interesting Folder

Kelite Products, Inc., 909 E. 60th St., Los Angeles 1, Calif. has available a very interesting folder describing the uses of pH control from the rig to the refinery.

Any oil man interested, may obtain this folder by writing the company.

STANDING COMMITTEE CHAIRMEN ASSEMBLED ON OCCASION OF ANNUAL DIRECTORS' LUNCHEON, CALIFORNIA NATURAL GASOLINE ASSOCIATION, JULY 17, 1945: Left to right: E. A. Brock, Southwest Welding & Manufacturing Co., Chairman, Entertainment Committee; Coles B. Bason, Ingersoll-Rand Company, Chairman, Membership Committee; Harry Ransford, Signal Oil & Gas Co., Chairman, Publicity Committee; R. W. Heath, Signal Oil & Gas Co., Chairman, Finance & Budget Committee; C. L. Hutchings, Tide Water Associated Oil Co., Chairman, Technical Committee; M. W. Kibre, General Petroleum Corp. of Calif., Chairman, Advisory Committee; W. L. Rifenberick, Industrial Engineers, Inc., Chairman, Fall Meeting Committee; Wm. Moeller, Jr., Southern California Gas Co., Chairman, Gas Report Committee.

electric pumping saves time

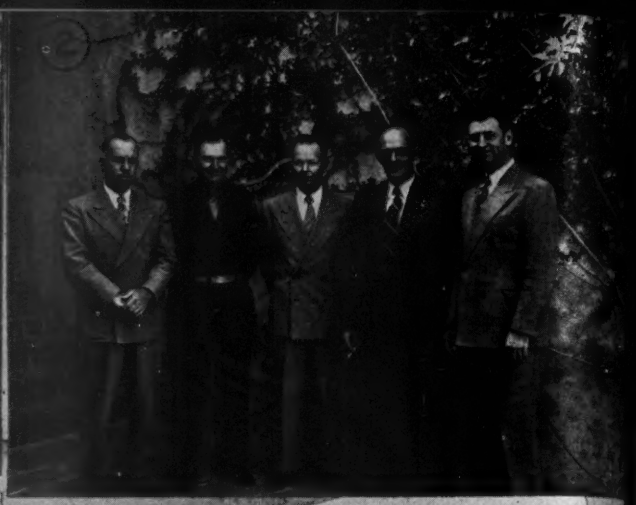


THE extensive use of motors driven by central station generated electricity has saved many manhours in California's oil fields and refineries. An electric motor saves time in several ways:

It starts instantly, at the touch of a button (or automatically, if desired). Purchased power is always ready, day or night—there are no delays. The smooth flow of electricity operates machinery evenly and steadily. Because the steady supply of purchased power minimizes wear on equipment, there is less replacement of parts, fewer shut-downs for repairs.

Other important advantages of electric pumping include lower cost of installation and maintenance . . . flexibility and portability . . . high salvage value. If you are interested in electric pumping, ask an Edison oil field engineer for ALL the facts.

SOUTHERN CALIFORNIA EDISON COMPANY LTD.



Nomads' Annual Wing-Ding

1.
Robert Lytle
Warren Smith
Elmer Price
Jack Wilcox

2.
T. G. Martin
Capt. D. M. Bernt
H. D. S. "Gus" Glen
Leslie A. Burkitt
Vernon C. Zillgitt

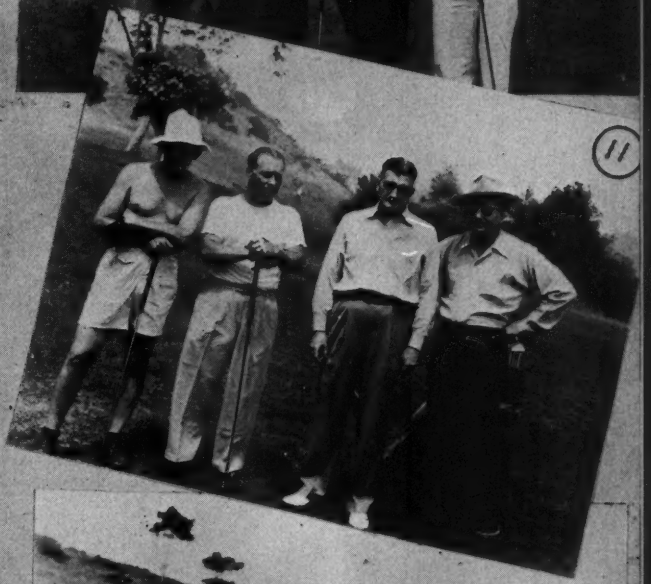
3.
Lou Bronzan
A. K. Smith
Frank Bergeron
John Fellows

4.
Roy Dearmin
Glenn Johnson
Ink Wotkyns
Ralph Beall

5.
Paul Medearis

6.
C. H. Ebblewhite
C. W. Perelle
C. R. Erb
Wm. A. Blees

7.
Elling Thygeson
Harry Evans
Knight Templeton
T. E. D. Holbrook



Nomads' Annual Wing-Ding

8.
J. H. Baird
D. G. Miller
J. C. Ballagh
D. J. Thompson

9.
Ned Clark
Waldo Moore
Ross Chambers
Tom Severns

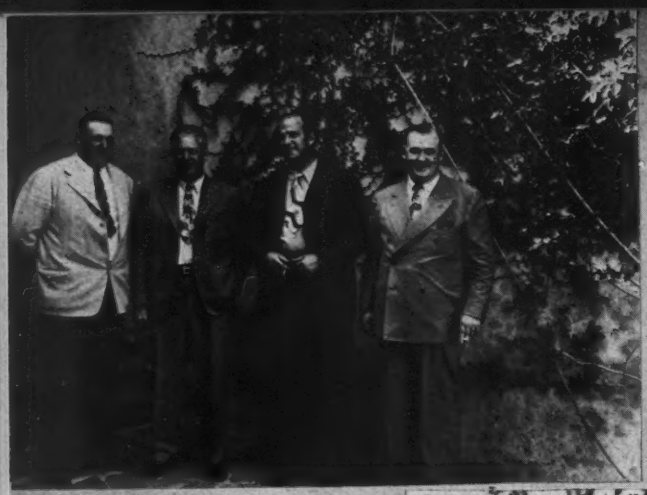
10.
C. S. Perkins
C. H. Tuttle
J. E. Aderhold, Jr.
Bill Kinder

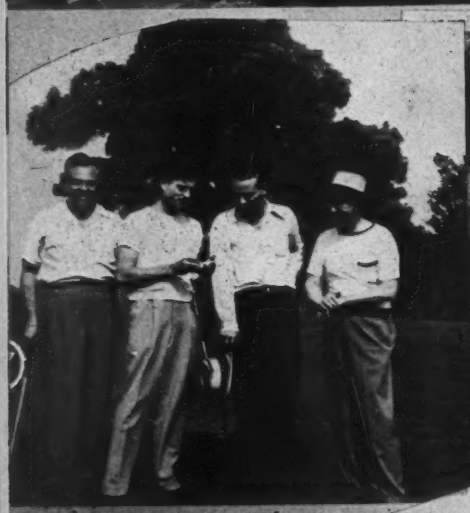
11.
Ernie Adams
C. A. Yocum
T. F. Wissenbach
R. P. Huggins

12.
F. P. Summers
R. L. Payne
H. M. Gallagher
A. E. Lagerquist

13.
Walter Smith
Bill Archer
Bob Larsen
Dick Wipperman
Billy McGraw

14.
O. P. Branyon
F. G. Shlemmer
A. E. Holmlund
Pete Maxfield





Nomads' Annual Wing-Ding

15.
Ed. W. Plaugher
Frank Gess
C. A. Petrie
Bob Cook

16.
Ray Morris
C. T. Gates
C. E. Ralph
F. N. Palsgrove

17.
R. E. Penney
E. V. Parker
D. H. Druen
D. D. Vail

18.
Ernie Fowks
R. Sneddon
Jack Donovan

19.
Al Lasken
Bob Glascock
Harold Olympius

20.
Ralph H. Clemons
Gordon Tunnell
Ken Vandervort
Holly Hayter

21.
I. H. Bettis
G. L. Jisa
W. A. Clark
J. D. Hills
H. T. Oliphant

22.
Roland E. Smith
Jerry E. Gose
Frank D. Richardson
John Savage

Nomads' Annual Wing-Ding

23.

P. J. Hayes
R. A. Powell
J. C. Rector
Frank V. Smith
Pop Atkins
W. J. Larson
Ward B. Tennis

24.

W. G. Wellington
W. A. Dunham
H. E. Kirkwood
H. F. Schlittler

25.

Don Wright
Lloyd Hill
Lou Bronzan
Bill Bettis
Andy Anderson

26.

Jack Smith
Les Ballard
Ed Steele
N. C. Clark
E. N. Cooke

27.

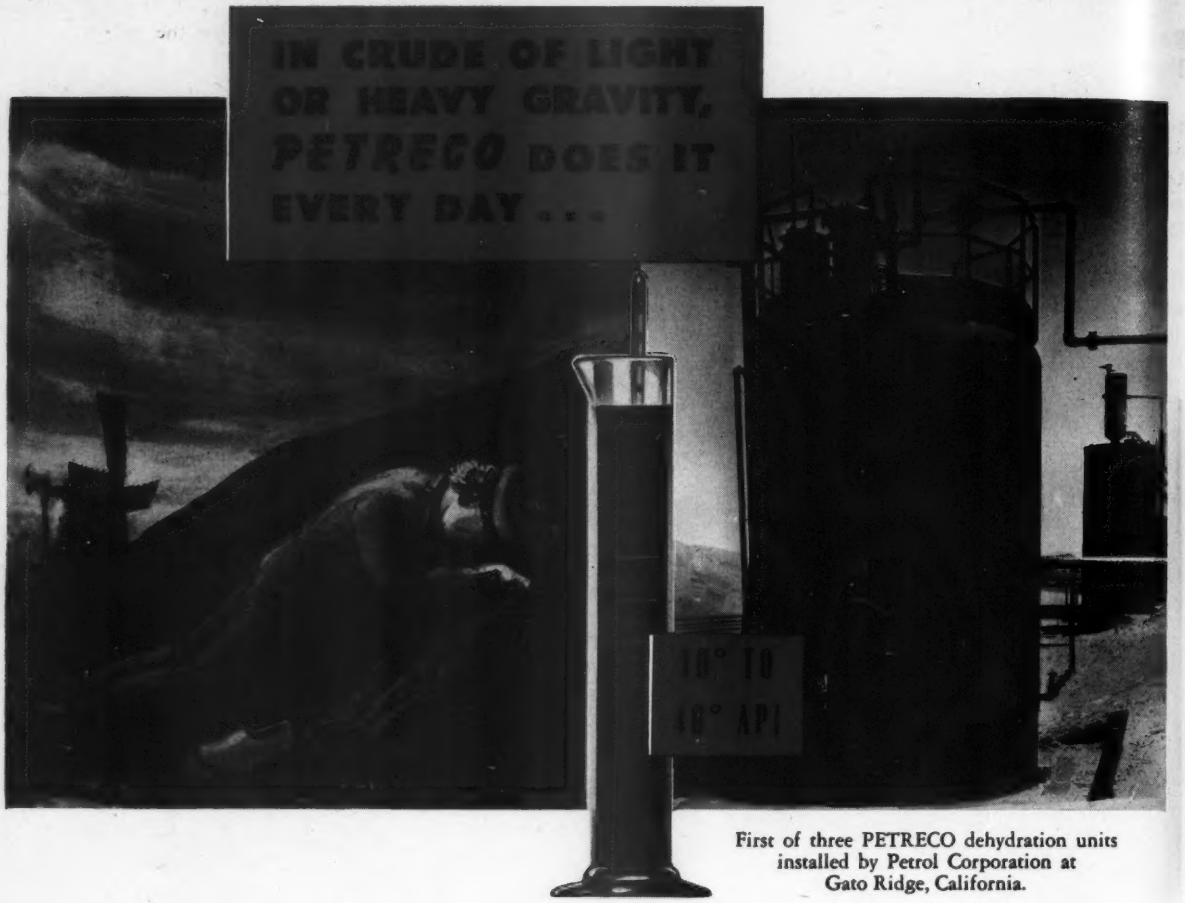
B. Reinhold
L. George Trembley
A. E. Collins

28.

"Lefty" Beeson
Al Randolph
J. H. Cooke
T. A. Needham

29.

Wallace Rushing
Bob Eiche
Jim McElwain
B. Y. Landis



First of three PETRECO dehydration units installed by Petrol Corporation at Gato Ridge, California.

Little Hans of Haarlem did a pretty good dehydration job in the Dutch lowlands when, according to the legend, he plugged the leaky dyke with his little fist. . . . But there is nothing legendary about PETRECO dehydration in crude of any gravity. . . . This has been proved time and again.

New proof of PETRECO efficiency in heavy oil comes with operation reports from Petrol Corporation's first dehydration unit installed on the Magenheimer lease at Gato Ridge, California.

The crude treated here, 10.2° API gravity, is the heaviest ever handled by Petreco's vapor-tight system. . . . In other fields crude as light as 40° API is being treated by PETRECO, always with a minimum of evaporation losses in the valuable light ends.

In this range from heavy to light crude—between 10.2° and 40° API—production will be covered in all of the major fields.

Don't bog down in heavy oil or suffer gravity or volume losses due to evaporation, when the Petreco automatic vapor-tight flow system is always ready to serve you.

●

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530 West Sixth Street, Los Angeles 14, Calif.
648 Edison Building, Toledo 4, Ohio
Representatives in principal production and refining centers

PETRECO

Dehydrating • *Electrical Process* • Desalting

Robinson Heads New Texaco Department

The establishment of a Technical Service and Research Laboratory by The Texas Company, Pacific Coast Division, Producing Department, was announced recently. William W. Robinson, Jr., formerly Chief Chemist of the company's Gasoline Division laboratory, was appointed Chief Chemist of the new organization with offices at Signal Hill, California.

W. W. ROBINSON, JR.

The new laboratory will carry out technical service and research activities connected with the drilling and production of petroleum and the processing of natural gas. Facilities are being enlarged through the erection of a research laboratory adjacent to existing buildings. The new building comprises seven research laboratories and a library.

Robinson entered the oil industry in 1923 as a chemist with the Chanslor-Canfield-Midway Oil Company at Torrance, California. In 1926 he was made Chief Chemist of the California Petroleum Corporation's natural gasoline laboratory, which later became a part of The Texas Company in 1928. In 1931 he became Director of Gas Research of The Texas Company's Beacon Research Laboratory, returning to California in 1933 to resume his former post in the Gasoline Division, which post he held up to the present change.

He is a member of the American Institute of Chemical Engineers, past president of the California Natural Gasoline Association, and a member of the California District Section of the A.P.I. Central Committee on Drilling and Production practice.

Sneddon Joins Petroleum Engineer

Richard Sneddon becomes Pacific Coast editor of the national oil publication, The Petroleum Engineer, effective August 1, according to K. C. Sclater, editor-in-chief, Dallas, Texas. Sneddon, who has been attached to the oil industry in various capacities for some 22 years, has for the past two years been editor of Petroleum World.

A Fellow of the Canadian Institute of Chemists, he began his oil career in 1923 as a research chemist for Union Oil Company of California, and was later placed in charge of field and pipeline gauging and testing laboratories. For a number of years he was editor of the Union Oil Bulletin, was the originator of the Company's employee magazine, "On Tour" and at the time he left Union Oil was manager of public relations.

Sneddon has been a member of the National Association of Public Relations Counsel, Inc., since 1937; has been chairman of publicity for the American Association of Petroleum Geologists; California Natural Gasoline Association; American Society of Mechanical Engineers and the American Petroleum Institute; and is at the present time secretary of the Petroleum Production Pioneers. He has won national recognition for writing in two widely diverse fields . . . science and humor, and when in 1939 the Federal Government undertook a study of technological development in the petroleum industry and its prospective effect on employment, Sneddon was delegated to present the facts on oil transportation and storage techniques.

Second "E" Award

American Meter Company's Philadelphia plants were notified on June 30th that they had won a second war production award, entitling them to display the white star on their Army-Navy "E" flag.

Fulkerson Appointed Sales Manager Vernon Tool

The appointment of Robert V. Fulkerson to the position of sales manager is announced by Vernon Tool Co., Ltd., Alhambra, California.

Fulkerson has had twenty-five years of experience in California oil fields, especially with sub-surface equipment, and is thoroughly familiar with the needs of operators.

ROBERT V. FULKERSON

Vernon Tool Co., Ltd., one of the pioneer oil tool manufacturers of California, makes a complete line of oil well specialties.

Petroleum Production Pioneers Gay Nineties Barbecue

S. H. Grinnell, president of Petroleum Production Pioneers, announces that the summer get-together of that organization will be held on Saturday, September 8th. The event will be a Gay Nineties Barbecue at the Standard Oil picnic grounds in East Whittier.

Program Committee chairman, E. B. Fowles, says there will not be a dull moment from the opening hour of 3 p.m. until the last pioneer has left the grounds. Refreshments will be available prior to the barbecue dinner which will be served at 5 p.m.

Dick Guiberson will be master of ceremonies, assuring plenty of surprises. Gay Nineties costumes are suggested to add to the spirit of the occasion.

PATTERSON-BALLAGH *Mud Guns*

★ The mixing of rotary mud, one of the most important operations in the drilling of an oil well, is sometimes a subject to which is given very little thought.

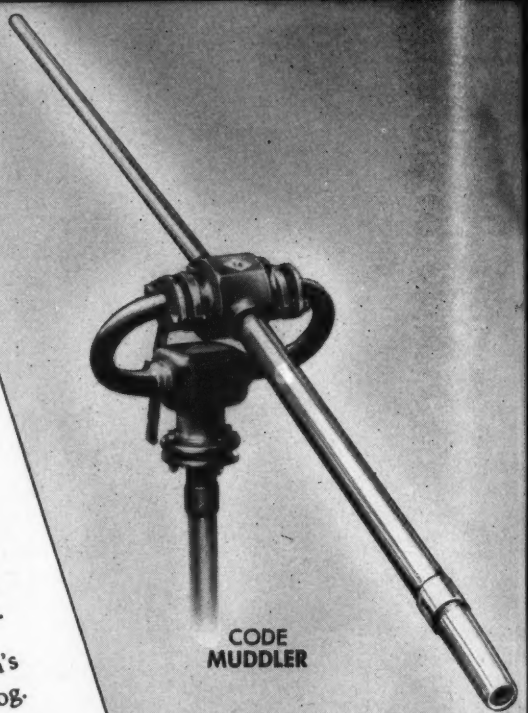
The Patterson-Ballagh Mud Guns are safe, economical, stay "put," easy to service, and reasonable in first cost. Most Mud Guns sold in recent years have been manufactured by Patterson-Ballagh, who have been constantly improving this important tool. To the basic models has recently been added the latest, bearing the code name MUDDLER. In our opinion this is the most efficient Mud Gun ever offered the oil industry. All Mud Guns are thoroughly tested at factory before shipment. Equipped with 2" standard pipe inlets and fitted with Patterson-Ballagh PBX rubber lined, or hard metal, nozzles.

Write today for Patterson-Ballagh's new illustrated Mud Gun Catalog.

"Best Bet Yet"

PATTERSON-BALLAGH

Los Angeles 1, Houston 10, New York 6



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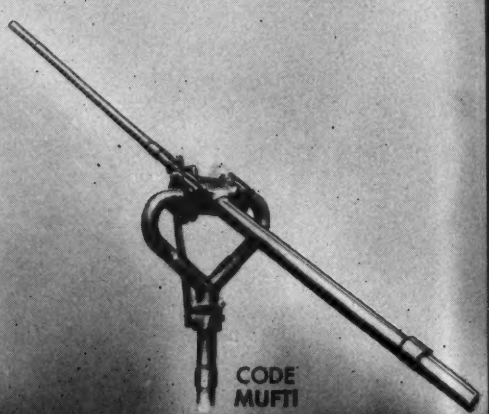
MUDDLER

CODE
MIDLEAN



CODE
MUFTI

THIS LAUGH OFF!!

First: "Do you know what time it is?"
Second: "Yes."
First (staggering away): "Thanks."

Dan: "You can get all sorts of things from kissing."
Kitty: "Yes, fur coats, diamonds, roadsters, and everything."

And then there was the skeleton who was sitting on a stool in a cafe when the waitress calmly walked up and said, "Have you been waiting long?"

Lady: "Doesn't that little boy swear terribly?"
Little Boy: "Yes'm, he sure do. He don't put no expression in it at all."

The recruit, keeping guard, heard the sound of an approaching horse through the darkness.
"Halt! Who goes there?" he challenged.
"Commanding officer," came the reply.
"Dismount, sir, and advance to be recognized," called the guard.
The officer did so. Then he asked: "By the way, who posted you here?"
"No one, sir," said the recruit. "I'm just practicing."

A man in an auto, who was stopped by a policeman for speeding, became very angry and called the traffic cop an ass. After he had paid his fine, the judge reproved him for what he had said to the officer.
"Then I mustn't call a policeman an ass?" he said.
"Certainly not," said the judge. "You must not insult the police."
"But you wouldn't mind if I called an ass a policeman, would you?"
"No, if it gives you any satisfaction," said his honor with a smile.
The motorist turned to the man who had arrested him, and said, "Good-day, policeman."

A story is told of a young man who called one evening on an old farmer to ask him how it was he had become rich.
"It is a long story," said the old man. "And while I am telling it we might as well save the candle." And he put it out.
"You need not tell the story," said the youth. "I understand."

Teacher: "I have taught him everything I know, and he is still ignorant.

Little Willie had just been told that a stork had brought him a little sister.
"Would you like to see her?" asked the doctor.
"Naw," replied little Willie, "I'd rather see the stork."

At the choir practice during the singing of a new anthem:
"Now don't forget," said the choirmaster "the tenors will sing alone until we come to 'the gates of Hell' then you all come in."

She sat on the bridge at midnight.
And tickled his face with her toes,
For she was a lonely mosquito,
And the bridge was the bridge of his nose.

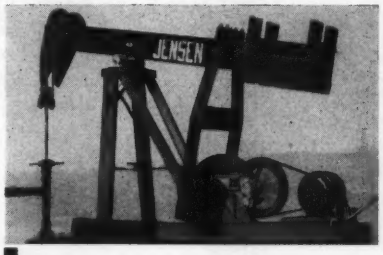
Hostess (gushingly): "You know I've heard a great deal about you."
Politician (absently): "Possibly, but you can't prove anything."

Customer: "Your milk isn't good any more."
Farmer: "I know it Mister. My cows haven't been contended, since they tore down that sign with the handsome bull on it."

Modern maiden's prayer: "Dear Lord, bring him back safe, sound and single!"

Boy: "Well, baby, what's the good word?"
Girl: "No."

Last Easter morning our pet bantam rooster discovered a basket of Easter eggs on the back porch. He strutted over to his hens, looked them over, then rushed off to the barnyard and licked the stuffing out of the peacock.



The story time tells

It takes a long time to find out for yourself how good a JENSEN Unit really is. It has taken us more than 25 years to make it that way. To develop great economy and dependability in equipment, time and experience must supplement engineering.

But you can find out quickly about JENSEN Pumping Units from owners, from field men responsible for JENSEN-equipped wells, from your JENSEN dealer and from Composite Catalog pages 1473-6. What you discover may surprise you. The JENSEN Unit is likely to make any well more profitable and satisfactory.

California Representative:
A. V. TURNER
445 W. 6th, Downey, Calif.
Phone: Topax 2-2410

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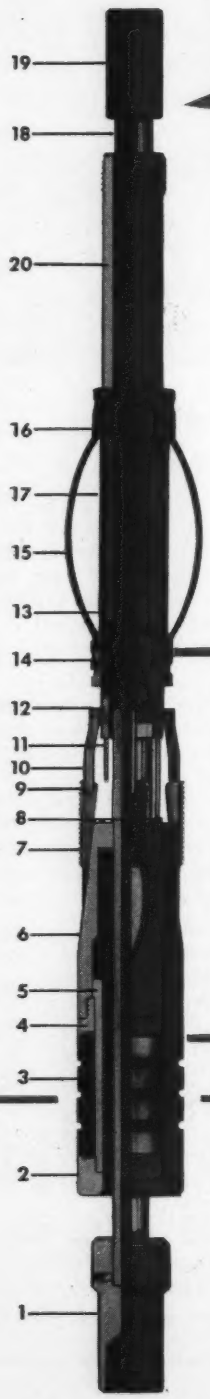
BROTHERS MFG. CO.
14th and Pacific Streets
COFFEYVILLE, KANSAS, U. S. A.
EXPORT OFFICE, 50 Church St.
New York City

LANE-WELLS UPSIDE-DOWN PACKERS

FOR ACIDIZING OPERATIONS



20 - Fishing Shoulder (For Emergency Retrieving)
19 - Back-Off Collar
18 - Mandrel
17 - Cage
16 - Cage Spring Screw
15 - Cage Spring
14 - Cage Spring Collar
13 - Setting Pin
12 - Slip Rein Ring
11 - Hold Down Bolt
10 - Slip Rein
9 - Slip Rein Pin
8 - Bolt Bushing
7 - Dovetailed Slip
6 - Slip Cone
5 - Packing Ring Sleeve
4 - Retaining Nut
3 - Packing Ring
2 - Valve Seat
1 - Head

Lane-Wells Upside-Down Packers are Olympic Circulation Type Hook Wall Packers altered to permit right-side-up or up-side-down operation. They provide maximum flexibility at no extra cost. The Upside-Down Packer is designed for shallow or deep well acidizing operations where tubing weight is not sufficient to prevent fluid pressure unseating the packer. It eliminates turnbuckling of tubing and loading of the casing-tubing annulus. It can be used as a tubing anchor where tubing is in strain rather than in compression. It will permit a straight string with minimum rod wear and maximum bottom hole pump efficiency.

Where well conditions do not necessitate upside-down operation it can be used as a conventional packer with no sacrifice of desirable features. Why not try it?

For full details of the operation of Lane-Wells Upside-Down Packers and their applications to your operating problems, call your nearest Lane-Wells Branch.

Tomorrow's Tools—Today!

LANE-WELLS COMPANY
TECHNICAL OILFIELD SERVICES

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General Offices, Export Office and Plant:

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24-HOUR SERVICE 35 BRANCHES

Penetron Measures Metal Thickness by Radioactivity

Secrecy has recently been lifted by the government on a new device utilizing electronic and radioactivity principles for the measurement of thickness of solids, metallic or non-metallic, and for determining liquid level and liquid density. This device is called "The Penetron."

The Penetron is a development of the Texaco Development Corporation, New York, New York. Dr. Gerhard Herzog, formerly associated with Dr. A. H. Compton, University of Chicago, in measurement of cosmic rays, became associated with Texaco and directed research and development which not only increased the effectiveness of the instrument and brought into being many new applications, but decreased the size from its original 400 lb. trailer mounted, two man operated form to its present weight of approximately 40 lbs. requiring one man only for its operation.

Engineering Laboratories, Inc., Consulting Engineers and Manufacturers, Tulsa, Oklahoma, has been exclusively licensed by Texaco Development Corporation for the sale and manufacture of the instrument. This company in 1937 developed Radioactivity Well Logging which discovers and records through steel well casing, by-passed oil producing areas. The method utilizes neutron measurement which is somewhat similar to the Penetron method, and has been responsible for discovery of hundreds of producing wells.

By means of "The Penetron" accurate inspection data is obtained on high pressure pipe lines, boiler tubes, towers, pressure vessels, etc., without cutting or drilling. Required annual inspections formerly cost an average $10,000 per location and required complete shut down of the equipment. By use of The Penetron accurate readings are made in 25 seconds with over 150 inspections per working day possible.

The Penetron also is used to locate interfaces of fluids of various densities and to determine liquid level in sealed containers where introduction of a mechanical float is not practical. Its applications are as wide as industry itself. Vast savings of man hours, increased production and decreased lost hours from injuries and production shutdowns caused by explosions are now made possible.

Operating principles can not be discussed in great detail owing to government secrecy limitations. However, in operation, the instrument bombards the subject object with gamma rays which are derived from a needle containing a minute amount of radium. These gamma rays travel with the velocity of light and are, in fact, radiant energy. They are not deflected by magnetic or electrical fields. The rays are scattered by the electrons of the atoms in the material being inspected. Some of these rays emerge, or are back-scattered from the material on the same side as they entered. The intensity of the back-scattered radiation increases as a direct function of the thickness of the material at the spot being measured. By measuring the intensity of this back-scattered radiation, the thickness of the material, whether it be steel, aluminum, plastics, brass, wood, or any other substance can be obtained with extreme accuracy. By the same means liquid levels and liquid densities are also obtained.

Petroleum Administration for War is greatly interested in the device as a means of speeding up vitally needed gasoline production. A high production priority rating has been assigned to the device.

D+B Appointed O'Bannon Distributor

The D+B Division of Emsco Derrick & Equipment Company has been appointed exclusive distributor for Walter O'Bannon Company products in California. The complete line of O'Bannon products, including safety sucker rod equipment, tubing tongs, valve and seating cups, and other pumping items and accessories will be stocked in all D+B Field Stores in California.

The addition of this nationally known line of products to D+B's complete engineering, manufacturing and field service facilities provide fast, efficient service for oil producing operations in the California area.

Trained Worker Shortage Acute

If depleted crude oil reserves and stocks of many oil products, brought about largely by the demands of war, are to be replenished at a date early enough to ward off economic disruption of the petroleum industry and the business life of California as a whole, great quantities of additional oil field equipment and machinery are needed. This is a certain prerequisite to drilling expansion in prospect and proved areas of the state.

The equipment to carry forward the vast increase in anticipated field operations cannot be supplied unless men are on hand to do the work.

In behalf of the hundreds of manufacturers in the state, therefore, the California Oil World urgently requests every available skilled or semi-skilled worker, who has been discharged from the armed services, or otherwise unemployed, to contact as quickly as possible their former employer or any concern in the interest of expediting the return of normal life in the peacetime years just ahead.

Larkin Appoints Howard Supply West Coast Representative

W. H. Larkin, president, Larkin Packer Company, announces the recent appointment of Howard Supply Company in Los Angeles to represent Larkin products on the West Coast. The complete line of Larkin float equipment and tubing heads will be carried in Howard Supply Company's Los Angeles warehouse and a representative stock carried in each of the distributor's nine field stores.

Larkin's appointment of Howard Supply Company on the West Coast is a part of the manufacturer's present program of expansion toward a more thorough distribution, particularly of such cementing equipment improvements as the "Perfect Circle" Shoe and the "Cementrol" Shoe, both of which have been proved in many areas of the world.

Field Development

PREPARED BY CALIFORNIA OIL WORLD NEWS SERVICE

Los Angeles Basin

Newhall-Potrero Area Try Working

C .C. M. O. Co. has recovered the fish in Sanborn No. 1 on sec. 6-3n-16w and is preparing to resume coring from present depth of 7620 ft.

North of the field Barnsdall Oil Co. is preparing to deepen the old 8520 ft. Newhall-Potrero Oil Co. Ferguson No. 1 on sec. 26-4n-17w.

L. A. City Wells Drill

Dumm Bros. Pet. Corp. Olympic 15, in the Lincoln Park area on sec. 24-1s-13w, is drilling at 707 ft. Some tar sand was logged below 420 ft. which will be tested if no better sands are found at depth.

Seaboard Oil Co. L. A. Brick No. 1, sec. 21-1s-13w, is drilling and spot coring at 5694 ft. No showings of importance have yet been reported in this well.

Placerita Creek Test Scheduled

Petroleum Expl. Co. is moving in equipment to drill Kraft No. 1 in the SE ¼ of sec. 31-4n-15w at Placerita Creek in Los Angeles county.

Sunset Beach To Be Drilled

Fred H. Howard is preparing to drill Howard-Isbell Sunset Comm. No. 1 at Sunset Beach. Located 155 ft. Sly. and 65 ft. Ely from the C/L of 12th St. and Pacific Coast Hiway the test lies between the Hiway and the Pacific Electric Railroad right-of-way on sec. 19-5s-11w.

Bandini Area Wells Working

Richfield Oil Corp. U. P. Unit No. 1, sec. 9-2s-12w is coring ahead at 8217 ft. No showings of importance have been reported although some minor oil showings have been logged.

C. G. Willis Pansini No. 1, sec. 23-2s-12w, is cleaning out to deepen from present depth of 5594 ft.

Seal Beach Outpost Starts

Shell Oil Co., Inc. is starting Bryant Ranch No. 1 some 3700 ft. northwesterly from its recently completed Bryant No. 3-1 at the

LOS ANGELES BASIN WILDCATS

Area	Well	No.	Section	Depth	Status
Athens	Gen. Expl. Co. of Calif., Johnson	1	11, 3-14	9313	Prep. to perf.
Aliso Canyon	Seaboard Oil Co., Evans	1A	23, 3-16	3164	Drilling
	Standard Oil Co., Wigdal	1	19, 3-16	899	Drilling
	Wilshire Oil Co., Marquis	1	35, 3-16		Grading
Bandini	Richfield Oil Corp., U. P. Unit	1	9, 2-12	8217	Coring
	Willis, C. G., Pansini	1	23, 2-12	5594	Cleaning out
Castaic	Charter Oil Co., Vinnell	1	18, 5-16		Rig
Brea	El Rancho Expl. Co., Rancho	1	30, 2-9	405	Reaming
Del Valle	Bankline Oil Co., Orduno	105	18, 4-17	2365	Drilling
	Superior Oil Co., Handy	1	18, 4-17	2857	Drilling
	The Texas Co., Kern-West	42-13	13, 4-18	7108	Sampling
	The Texas Co., Kern	32-18	18, 4-17	3251	Recementing
	The Texas Co., Kern	41-18	18, 4-17	7058	Drilling
Gardena	Ohio Oil Co., Gardena Comm.	1	25, 3-14	10052	Drilling
La Habra	Union Oil Co., Sansinena	17	30, 2-10	3000	Coring
Las Llajas	Standard Oil Co., Brady Est.	2-1A	13, 3n-7w	7555	Drilling
L. A. City	Dumm Bros. Pet. Corp., Olympic	15	24, 1-13	700	Drilling
	Seaboard Oil Co., L. A. Brick	1	21, 1-13	5694	Drilling
Newhall	British-Am. & The Texas Co., NLF	2	21, 4-17	8467	Abandoned
	C.C.M.O. Co., Sanborn	1	6, 3-16	7620	Cleaning out
	Signal Oil & Gas Co., Needham	1	14, 3-16	4998	Pumping
Oak Canyon	Western Gulf Oil Co., Stevens	B-1	5, 4-17	7843	Drilling
Pico	Rothschild Oil Co., Brodrick	1	7, 2-11	2000	Idle
	Rothschild Oil Co., Cates	1	7, 2-11	4195	Abandoned
Placerita Creek	Petroleum Expl. Co., Kraft	1	31, 4-15		Equipment
	Continental Oil Co., Comm.	6	14, 2-11	3030	Drilling
Seal Beach	Shell Oil Co., Bryant Ranch	1	34, 4-12		Grading
So. Covina	The Texas Co., So. Covina Comm.	5-1	18, 1-9	2000	Abandoned
Turnbull Canyon	Continental Oil Co., Buehler	1	14, 2-11	4156	Abandoned
	Cinnabar Drlg. & Expl. Co., Well	1	24, 2-11		Grade
W. Coyote	Barnsdall Oil Co., S. H. R.	3	21, 3-10	5285	Drilling
	Standard Oil Co., Lewis	1	11, 3-11	10031	Drilling
Whittier	Atlas Prod., Inc., Grey	1	17, 2-11	4975	Idle
	Imperial County				
El Centro	Amerada Pet. Corp., Timken	1	28, 16-14	7008	Drilling
Holtville	The Texas Co., Grupe-Engebretsen	1	8, 16-16	12313	Abandoning
	Orange County				
Buena Park	Gen. Pet. Corp., Librown	1	21, 3-11	11181	Drilling
Costa Mesa	Atlas Prod., Inc., Irvine	1	23, 6-10	2560	Idle
	Barnhart-Morrow Carver	1	21, 6-10	1975	Abandoning
	Barnhart-Morrow Deeble	4	18, 6-10		Prep. to spud
	Beverly Oil Co., McCain	3	17, 6-10		Location
	Lovelady & Cristman, Wilson	1	21, 6-10	700	Idle
	D. D. Dunlap Curtis	1	18, 6-10	2330	Completed
	D. D. Dunlap Curtis	2	18, 6-10		Rig
	D. D. Dunlap Aldrich	1	18, 6-10	2900	Drilling
	Elliott, D. W., Channel	2	19, 6-10	2075	Completed
	Elliott, D. W., Channel	3	19, 6-10		Prep. to spud
	Macoil Co., Banning	12	19, 6-10		Prep. to spud
	Menvig, Emil L., Well	2	20, 6-10	2381	Abandoned
	Quinn, John B. Little	1	18, 6-10	2210	Testing
Kraemer	Mid. Cal. Pet. Co., Mid. Pet.	K-1	24, 3-9	2600	Idle
Sunset Beach	Howard, Fred H., HISC	1	19, 5-10		Location
	San Bernardino County				
Chino Hills	Chino Hills Oil Co., Kraemer	3	33, 3-28	896	Idle

northerly flank of the Seal Beach field. Located midway between the Long Beach and Seal Beach fields the new driller will be 309 ft. southeasterly along the C/L of Pacific Coast Hiway from the C/L of Anaheim St., thence 373 ft. north easterly at right angles. No. 3-1 completed from 1315 ft. of zone at 10,194 flowing a 300 b/d average rate clean 32.0 gravity oil and 145,000 cu. ft. of gas under control of a 24/64-inch bean.

Recently completed in the field is Hellman Estate No. 7 which finished at 8160 ft. flowing 1918 b/d clean 30.5 gravity oil through a 1-inch bean under 350/1200 lb. pressure.

Brewers To Drill At Turnbull Canyon

Los Angeles Brewing Co. is preparing to drill Jones Comm. No. 1 in the Turnbull Canyon area. With the drilling contract already let the well should soon be started at a point 856 ft. south and 462 ft. east of the NW corner of sec. 24-2s-11w.

Del Valle Field Well Completed

R. E. Havenstrite, Operator—Lincoln No. 13 completed at 6701 ft. flowing 598 b/d clean 32.6 gravity oil and 900,000 cu. ft. of gas through a 26/64-in. bean. The operator is preparing to drill Barnes No. 6 while Lincoln No. 14 is making hole at 6783 ft.

Standard Oil Co. Sepulveda No. 10 is standing with 7-in. casing cemented on the bottom, at 5660 ft. after a formation test 5448-5512 flowed gas at a 400,000 cu. ft. rate and recovered 3065 ft. of clean oil.

Costa Mesa Field Results Spotty

Results from operations in the varied sections of the Costa Mesa-Newport field are directly opposed. On the Upland or Mesa section all new wells have proved barren in the A, B, and C zones while near the channel at the base of the Mesa production from the B zone remains substantial.

Recently abandoned on the Mesa are Barnhart-Morrow Cons. Carver Comm. No. 1 at 1975 ft. and Emil Menvig & Assoc. Menvig No. 2 at 2381 ft.

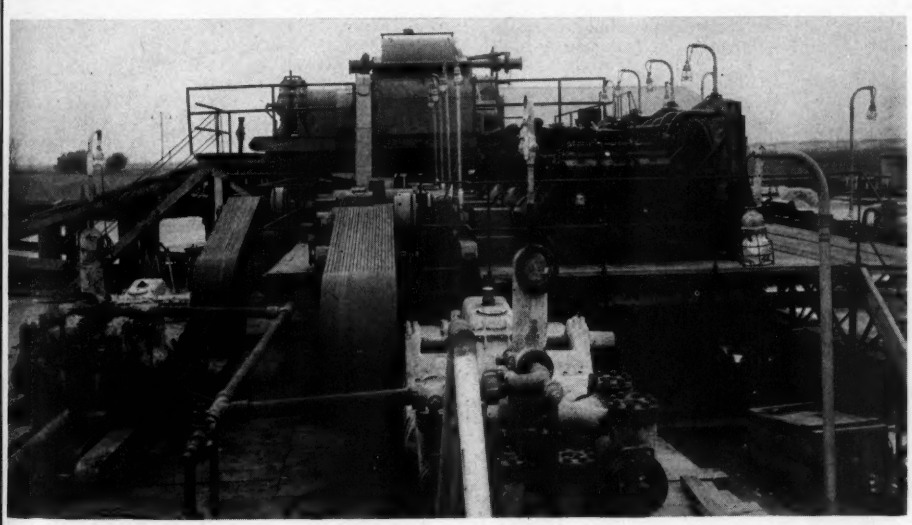
Those recently adding production in excess of 120 b/d to the field returns are Macoil Co., Barnhart-Morrow, D. D. Dunlap and D. W. Elliott, each of whom has additional drilling under way. Other operations on the flat land are John B. Quinn and Beverly Oil Co.

Joint Newhall Test On Hook

The British American and The Texas Co. N. L. & F. No. 2, sec. 21-4n-17w, is abandoned at 8467 ft. A formation test 7793-7867 ft. recovered only water with a fair gas blow.

Covina Area Test Quits

The Texas Co. put Covina Comm. No. 5-1 on the hook at 2000 ft. Located on sec. 18-1s-9w, the well was abandoned after the electric logs and side wall sampler showed no saturation.



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Coastal and Northern District

Cat Canyon Well Pumping

Palos Verdes Estates, Inc. P.C. No. 1, sec. 27-9n-33w, finished on the pump at 6402 ft., making a settled 375 b/d 14.5 gravity oil with a 25.0% cut.

Hilo Oil Co. Hilo-Gilmore No. 1, sec. 23-9n-33w, in the most northern section of the field, is waiting on production crews to complete at 6243 ft.

Ventura Avenue Well To Deepen

British American Oil Prod. Co. is rigging up to deepen Hartman No. 14 from present depth of 11,100 ft. Completions on the Shell and Tide Water leases continue on established schedules for consistently good returns.

Long Canyon Try Drilling

Shell Oil Co., Inc. McBean No. 1, sec. 33-3n-20w, is drilling ahead in shale with streaks of sand at 8432 ft. No showings have yet been reported on this Long Canyon wildcat.

Santa Maria Wells Working

Development of this field continues at its continuously rapid pace. Inside acreage is being devoloped at a rate consistent with good engineering practices.

General Pet. Corp's. Le Roy No. 1, outpost on sec. 16-10n-34w, is drilling and spot coring at 5150 ft. A few more cores will be taken prior to tests of zones encountered to date.

Fillmore Deep Test Drilling

Standard Oil Co. Elkins No. 1, deep test of the old Fillmore field area on sec. 6-3n-19w, continues to make hole with depth last reported in shale at 11,913 ft.

Paso Robles "Cat" Quits

Norris Stamping & Mfg. Co. Clark No.1, sec. 3-27s-13e near Paso Robles in San Luis Obispo county, was abandoned at 3336 ft. At 1885 ft. the well logged some 150 ft. lower structurally than its recently abandoned Dresser No. 1.

Los Alamos Area Coreholes Drilling

Whittier Associates continues its slim hole exploration program in the Los Alamos Area of Santa Barbara county. Latest is G. Buell No. 2 now drilling at 532 ft. at a point some 5040 ft. south and 2630 ft. east of corner No. J of Rancho Carlos de Jonata.

South Mountain Well Pumping

F. E. Fairfield S. M. No. 4, sec. 19-3n-20w, completed at 5055 ft. and is on the beam for a settled 193 b/d 24.9 gravity with a 18.0% cut. S. M. No. 5 is drilling ahead at 2310 ft. Los Feliz Inv. Co.-Macoil Co. S. M. No. 2, sec. 24-3n-21w, is completing from 1694 ft. of zone to bottom at 5084 ft.

Latest completed in the field is Pacific Western Oil Corp. Yale Richardson No. 9, sec. 13-3n-21w, which finished at 3921 ft. pumping 64 b/d 19.0 gravity cutting 5.8%.

New operation here will be Union Oil Co. Crane No. 5 which is preparing to spud on sec. 13-3n-21w and M & M Associates which is moving in equipment to drill in the same section. The Texas Co. is drilling Willard No. 27 on sec. 18-3n-20w at 1332 ft. and has rig up for S. P. No. 22 in the same section.

Gustine Area "Cat" Coring

Tide Water Assoc. Oil Co. Soares No. 31-26, sec. 36-8s-8e in the Gustine area of Merced county, is coring ahead in hard shale at 4431 ft.

COASTAL COUNTIES WILDCATS

Area	Well	No.	Section	Depth	Status
Santa Barbara County					
Cat Canyon	Palos Verdes Estates, P. C.	1	27, 9-33	6402	Completed
Elwood	Union Oil Co., Campbell Ranch	1	24, 4-29	5076	Abandoned
Gaviota	Standard Oil Co., Hollister	1	35, 5-33		Rig
Los Alamos	Bel-Air Oil Co., Price	2	17, 8-32	5116	Drilling
	Whittier Assoc., Glen Buell	1	15, 7-32	1787	Abandoned
	Whittier Assoc., G. Buell	2	15, 7-32	523	Drilling
Los Olivos	Hub Oil Co., La Laguna	1	7, 7-30	5852	Idle
Ventura County					
Camarillo	Barth, D. A., Well	1	32, 2-20	520	Idle
Devils Anticline	Haddock, T. J., Lovell	1	14, 5-19		Cellar
Fillmore	Firestone Oil Co., O'Leary	1	29, 4-20	375	Drilling
	Standard Oil Co., Elkins	1	6, 3-19	11877	Coring
Hopper Canyon	Cal. Oil., Inc., Well	1	14, 4-19		Location
Hopper Creek	Union Oil Co., Moran	1	1, 4-19		Grading roads
Long Canyon	Shell Oil Co., McBean	1	33, 3-20	8432	Drilling
Malibu	Sycamore Oil & Gas Co., Boylan	1	23, 1-20	2760	Prep. to deep.
Ojai	Delaney Pet. Corp., Victory	1	8, 4-21	3551	Idle
	Volunteer Pet. Corp., Hilltop	2	7, 4-21	3290	Bailing
	Volunteer Pet. Corp., M & L	1	7, 4-21	245	Idle
	Volunteer Pet. Corp., Pyramid	1	18, 4-21		Location
Oxnard	Lloyd Corp., Ltd., Todd	A-1	6, 1-22	4211	Idle
	Lucas, Andrew & Mabel E., Janet	1	7, 1-21	2750	Rigging pump
Piru	Ginter, C. W. & Assoc., Warring	1	19, 4-18		Location
Red Mt.	Continental Oil Co., Casitas	2	7, 3-23		Rig
Santa Paula	Standard Oil Co., Santa Paula	1	10, 4-20	5617	Drilling
Simi (L.A. Co.)	Union Oil Co., Simi	5	22, 3-17		Grade roads
Snowball Anticline	Grubb, M. T., Opr., Snowball	1	19, 4-24	5077	Drilling
South Mt.	Los Nietos Co., C & H	1	22, 3-21	6315	Run. casing
Squaw Flats	Assoc. Pipe & Eng. Co., Bucksnort	1	5, 5-19	2516	Drilling
Timber Canyon	Hickey Noble J., Temple	1	22, 4-21	775	Idle
San Luis Obispo County					
Huasna	Amerada Pet. Corp., Tar Springs Ranch	2	23, 32-14		Grade
Paso Robles	Norris Stamping & Mfg. Co., Clark	1	3, 27-13	3336	Abandoned

NORTHERN COUNTIES WILDCATS

County	Well	No.	Section	Depth	Status
Alameda	Bradford & Guardino, B & G	1	7, 3s-3e		Location
Contra Costa	Ardly Pet. Co., Almond	1	3, 2n-2w	100	Idle
Merced	T.W.O.A. Co., Soares	31-36	36, 8s-8e	4434	Drilling
San Benito	Panoche Pet. Co., Panoche	2	24, 16s-10e	160	Idle
Solano	Amerada Pet. Corp., Wineman, et al	1	35, 6n-2e	4872	Drilling
	Shell Oil Co., Hamburger-Treadwell	1	36, 6n-2e	4466	Drilling
	Standard Oil Co., Cal-Pack	3	6, 4n-3e		Rigging up
	Standard Oil Co., Teal Comm.	1	27, 4n-2w	6025	Stdg. cem.
	Standard Oil Co., Montezuma Comm.	1	20, 4n-2e	7400	Abandoned
Sutter	Buttes Oilfields, Inc., Buttes-Ward	2	3, 15n-1e		Rigging up

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Snowball Anticline Wildcat Drilling

M. T. Gruble, operator—Snowball No. 1, sec. 19-4n-24w, has sidetracked all of its lost hole and is drilling ahead in hard shale at 5077 ft.

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Malibu Well To Deepen

Sycamore Oil & Gas Co. is reported to be planning to deepen its 2760 ft. Boylan No. 1 on sec. 23-1s-20w on the Coast near Malibu.

New Piru Area Well Planned

C. W. Ginter & Associates are preparing to drill Warring No. 1 in the Piru Area of Ventura county. The location is 1760 ft. south and 470 ft. west of the NE corner of sec. 19-4n-18w.

Devils Anticline Well Starting

T. J. Haddock has graded cellar for Lovel No. 1 on sec. 14-5n-19w. The site is 660 ft. south and 200 ft. east of the NW corner of sec. 14.

Hopper Canyon Well Scheduled

Cal. Oil, Inc. is preparing to drill a well 660 ft. south and 660 ft. west from the E¼ corner of sec. 14-4n-19w in Hopper Canyon.

Oxnard Well Preps. To Pump

El Rio Oils (Canada, Ltd.) El Rio No. 2, sec. 6-1n-22w, is preparing to pump after bottoming at 2904 ft., setting casing at 2594 ft. and running liner.

Ralph Lloyd is preparing to drill a deep test on sec. 24-3n-23w.

Athens Outpost To Be Reworked

J. E. Pettijohn has acquired the General Expl. Co. of Calif. Johnson No. 1 at the corner of Western and Imperial Avenues west of the Athens field. The operator plans to gun perforate the 8935-9005 ft. interval and make a pump test.

Oil Well Drilling Sites For Lease

The Board of Water and Power Commissioners of the City of Los Angeles will receive and consider offers to lease two sites located near its Seal Beach Steam Generating Plant.

Additional particulars may be had at Room 502, 205 South Broadway, Phone Mi. 4211, Station 779.

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Imperial County Test Abandoning

The Texas Co. is abandoning its 12,313 ft. Grupe-Engebretson No. 1 on sec. 8-16s-16e near the town of Holtville. The well was unsuccessfully tested prior to the decision to abandon. Extremely high bottom hole temperatures complicated the gun perforating and testing operations.

In the El Centro area Amerada Pet. Corp. Timken No. 1, sec. 28-16s-14e, is drilling ahead at 7008 ft.

San Joaquin Valley

Union Avenue Driller Planned

Hancock Oil Co. is preparing to drill K. C. L. No. 1, 300 ft. north and 330 ft. west of the SE corner of the SW ¼ NE ¼ of sec. 6-30s-28e south of the town of Bakersfield.

Elks Hills Field Continues Drilling

Standard Oil Co., as agent for development of this rich Naval Petroleum Reserve, has maintained a high average of completions. During the month of July 19 wells were added to the producing roster. The company averages 8 drilling strings at all times in this field.

Blackwells Corner Wells Now Pumping

Amerada Pet. Corp.'s development of the Ellis Fee property on sec. 19-26s-19e is rewarded with fair pumpers at shallow depth. The first 4 wells are currently pumping 20 to 25 b/d of 14.0 gravity oil from the 1200-1300 ft. level. No. 5 is coring at 1200 ft. for the top of the sands.

Coalinga Eocene Well Finished

Robert S. Lytle, Operator, well No. 1-18F, discovery well of the rich field, was redrilled and deepened to 7167 ft. Gun perforated 7095-7145 ft. the well is flowing 750 b/d clean 32.0 gravity oil and 344,000 cu. ft. of gas through a 30/64 in. bean under 600 lb. flow pressure.

Round Mountain Well On Pump

Good production at shallow depth is made from east side fields as evidence by General Pet. Corp. Bishop No. 6 on sec. 14-28s-28e at Round Mountain. Bottomed at 2684 ft. the well is pumping 134 b/d 12.7 gravity oil.

Mount Poso Cat Drilling

J. H. Maurer & A. C. Fisher, Jean No. 2, sec. 15-26s-28e, is drilling in Schist at 1062 ft. Top of the barren Vedder was found at 840 ft. and the basement at 1060 ft.

SAN JOAQUIN VALLEY WILDCATS

Area	Well	No.	Section	Depth	Status
	Fresno County				
Burrel	Gen. Pet. Corp., Burrel	47-1	1, 17-18		Grading
Cantua	Tide Water Assoc. Oil Co., S. P.	82-15	15, 17-15	11348	Drilling
Irvine Ranch	Union Oil Co., Irvine	65-13	13, 13-12		Rig
Lanare	Superior Oil Co. Sample	81-25	25, 17-18	4387	Drilling
Raisin City	Union Oil Co., S.A. & F.L.	38-29	29, 15-18		Location
	Kern County				
Ant Hill	Amerada Pet. Corp., S. P.	58-23	23, 29-29	5382	Abandoned
Antelope Hills	Miller & York, Theta	1	12, 28-19	2056	Abandoned
	Williams Bros. Oil Co., Layman	1	12, 28-19	853	Pumping
Arvin	Richfield Oil Corp., Di Giorgio	3-1	3, 31-29	5314	Coring
Bacon Hills	Bandini Pet. Co., Bacon	1	27, 28-20	10920	Sidetrack fish
Buena Vista	Richfield Oil Corp., B. V. A.	72-25	25, 31-25		Grade
Coles Levee	Union Oil Co., Kernco	34-12	12, 31-25	9976	Testing WSO
Cymric	Standard Oil Co., Fitzgerald	55	24, 29-21		Rigging up
	Standard Oil Co., Well	34-26	26, 29-21		Foundation
	Standard Oil Co., Weston	1-7	25, 29-21	1372	Testing
	Union Oil Co., Anderson	55-26	26, 29-21	3387	Coring
Devils Den	C.C.M.O. Co., Bates	2	20, 25-19	9181	Abandoned
	Foreman, J. A. Dan, Marine	38	26, 25-18	310	Drilling
	Hillview Oil Co., Alferitz	3	14, 25-18	2088	Fish bailed
	McAllister, Wm. G., McCalden	1	26, 25-18	1327	Idle
Edison	General Pet. Corp., Cauley Fee	42-16	16, 30-29	5553	Coring
	Richfield Oil Corp., Cauley 2	15-16	16, 30-29	3860	Redrilling
	Rothschild Oil Co., Porter	3	17, 30-29	3960	Testing
Fairfax	Richfield Oil Co., Smith	88-1	1, 30-28		Location
Fruitvale	Gen. Pet. Corp., Calloway	66-17	17, 29-27	6337	Drilling
	Nat. Iron Works, Galtes	1	14, 29-27	3063	Idle
Gosford	Rothschild Oil Co., KCL-A	83-13	13, 30-26		Rigging up
	T.W.A.O. Co., KCL	22-23	23, 30-26		Grade
Jasmine	Utility Oil Assoc., Quinn	4A	15, 25-27		Location
Kern Bluff	Floray Pet. Co., Well	1	24, 29-28	3715	Idle
Lerdo	Richfield Oil Corp., Lerdo	2	33, 28-27	3607	Abandoned
Lost Hills	Standard Oil Co., Cahn	58	4, 27-21	11080	Fishing D.P.
McKittrick	Tide Water Assoc. Oil Co., Well	65-34	34, 30-22		Location
Mojave	Thos. M. Blake, Cinco 1		22, 31-27	1718	Resuming
	J. S. & L. Oil Co., Childs-Wall	1	9, 32-38	1905	Idle
	Park, T. L., Dove	1	25, 31-37	40	Idle
Mt. Poso	Maurer & Fisher, Jean	2	15, 26-28	1062	Drilling
	U. S. Drilling Co., S. P.	33-2	33, 26-28	1685	Abandoned
Mt. View	J. Paul Getty, Derby	23	33, 30-29	6933	Run. casing
	Richfield O. Corp., W. Mtn. View	53-16	16, 30-28		Grade
	Rocket Pet. Corp., Comm.	1	29, 30-29	4747	Drilling
Midway-Sunset	Norwalk Co., Well	1	32, 31-23	4127	Abandoned
	Richfield O. Corp., Smith & Crawford	1	3, 31-22	6053	Drilling
North Belridge	Tide Water Assoc. Oil Co., Well	2-17	17, 27-20	6583	Drilling
North Edison	Standard Oil Co., Well	45-21	21, 29-29	2654	Drilling
Paloma	Superior Oil Co., Houchin	27-27	27, 31-26	11831	Drilling
	Western Gulf Oil Co., L.A. Club	67-6	6, 32-27	12792	Swabbing
Round Mt.	Independent Expl. Co., Heisen	2	36, 27-28	1148	Abandoned
	Independent Expl. Co., Fee	1	36, 27-28		Grade
	Trico Oil and Gas Co., Olcese	3	17, 28-29	950	Idle
Saco	Gen. Pet. Corp., Kernway	64-1	1, 29-26	4851	Cleaning out
	Gen. Pet. Corp., Kernway	68-1	1, 29-26		Rig
	Gen. Pet. Corp., Kernway	75-1	1, 29-26	4165	Run. casing
Salt Creek	Rothschild-Bender Oil Ops., Sheep Springs	6	17, 29-21	3139	Drilling
San Emidio	Richfield Oil Corp., San Emidio	A-1	8, 11-21	11267	Drilling
Santiago	Richfield Oil Corp., Leutholtz	2	22, 11-23		Location
	Western Gulf Oil Co., Woodward	2	21, 11-23	2678	Completed
So. Dome	Los Nietos Prod. & Ref. Co., S. D.	41	13, 25-19	6120	Drilling
Tejon	Richfield Oil Corp., Tejon	A-15-31	31, 12-18	5017	Testing
	Richfield Oil Corp., Tejon	A-25-7	7, 10-19	3484	Drilling
	Tejon Oil Co., Tejon	1A	19, 11-19	10290	Fishing D.P.
Temblor	The Texas Co., Westpet	21-29	29, 29-21	934	Drilling
Union Avenue	Hancock Oil Co., KCL	1	6, 30-28		Location
	Kings County				
Pyramid Hills	Pac. O & G Dev. Corp., Hogan	1	20, 24-18	1012	Abandoned
	Pyramid Prod. Co., Spreckles	1	16, 24-18	4214	Idle
	Madera County				
Gill Ranch	The Texas Co., Gill	655-17	17, 13-16	3748	Drilling
	San Luis Obispo County				
Cholame	K & M Drilling Co., Kosanke	1	17, 25-16	710	Idle
	Taylor & Rankin, Caral	1	6, 25-16	876	Idle
Cuyama Ranch	Norris, H. L., Cuyama Ro.	2	25, 11-28	200	Drilling
Midway	Richfield Oil Corp., Temblor Hills	1-1	36, 31-21	9460	Prep. abandon
Shandon	Tutin & Twisselmann, White	1	5, 25-15	5490	Drilling
Temblor Hills	Richfield Oil Corp., & Sun Oil Co.. Gonyer Unit	1	36, 12-25	5983	Coring
	Tulare County				
Pixley	Jergins Oil Co., Cal-Grape	18-17	17, 32-26	4625	Coring
Trico	Magee, H. H., Opr., Heitzig	1	36, 24-23		Rig

Petrolia Area To Get Test

The Petrolia Area of Humboldt county is to be drilled for the first time in many years. Hal R. Clark and Ernest C. Mathews have blocked up 1000 acres in the Mattole River Valley some three miles north of the town of Petrolia.

Cymric Well Tests Good

Standard Oil Co. Weston No. 1-7, sec. 25-29s-21e near Union Oil Co.'s discovery well, is standing with casing cemented at 1025 ft. after bottoming at 1372 ft. in shale. Tests at intervals from 1147 to 1343 ft. recovered substantial amounts of oil and gas.

Temblor Hills Unit Quitting

Richfield Oil Corp. is abandoning Temblor Hills Unit No. 1-1 on sec. 36-31s-21e west of the Midway field. Bottomed in shale at 9460 ft. the well had found mostly shale in the last 3500 ft. of hole.

Gulf Discovers New Oil Field

Western Gulf Oil Co. Woodward U.S.L. No. 2, sec. 21-11n-23w effected discovery of good production off the southerly tip of the Sunset field.

Bottomed at 2678 ft., the well cored good oil sand in the interval 2460-2672 ft. which is thought to be the Stevens zone.

The well initialed 1200 b/d rate 24.0 gravity clean oil and 192,000 cu. ft. of gas through a 32/64 in. bean. Current production is 919 b/d 23.6 gravity 0.6% 32 to 12/64 in. bean 300/400 lbs. and 260,000 cu. ft. of gas.

Richfield Oil Corp. holds offset acreage and is preparing to drill Leutholtz No. 2 in the northwest corner of the adjacent section 22.

Helm Well Plugs and Tests

General Pet. Corp. Whitten No. 75-23, sec. 23-17s-18e, drilled to 8258 ft. in cretaceous finding everything below the Miocene barren. The well is currently standing with 5½ in. casing cemented at 6943 ft. for production trial of Miocene sands.

Pixley Area Test Coring

Jergins Oil Co. Cal. Grape No. 18-17, sec. 17-23s-26e, is coring in basement material at 4625 ft. after tpoping the zone at 4621 ft. A few meagre oil showings were logged in the interval 4574-95 ft. and on test recovered only mud and water.

Edison Well Makes Flow

H. H. Magee, operator, Dougherty No. 5, sec. 14-30s-29e, deepened from 2659 ft. to 2705 ft. and on a formation test flowed 500 b/d rate and is now preparing to core ahead.

Coalinga Field Well On Hook

Los Angeles Basin Drilling Co., Sierra No. 1, sec. 2-19s-15e, abandoned in Kreyenhagen shale at 3075 ft. after finding the Temblor sands wet.

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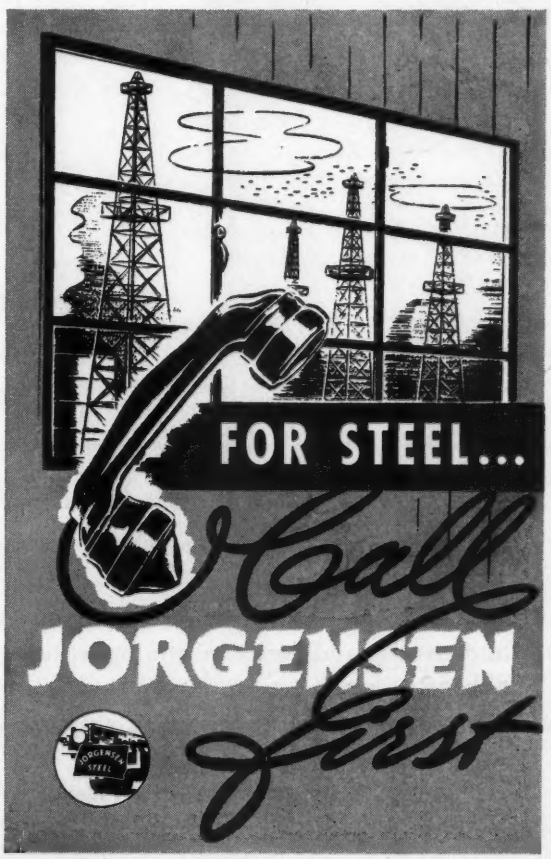

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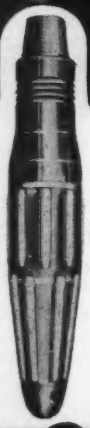

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Coles Levee Outpost Hits

Union Oil Co. Kernco No. 34-12, Coles Levee outpost well in sec. 12-31s-25e bottomed in oil sand at 9976 ft. after topping the pay zone at 9844. 7-in. casing is standing cemented over the zone at 9839 ft.

Cantua Creek Try In Shale

Tide Water Assoc. Oil Co. S. P. No. 82-15 in sec. 15-17s-15e is drilling ahead in Moreno shale at 11,348 ft. The hole is protected with 8⅝-in. casing cemented at 8855 ft.

Raisin City Well Completed

The Petrol Corp. No. 45-14, sec. 14-15s-17e, completed from the perforated intervals 5185-5200 and 5207-5211 ft. flowing 400 b/d clean 26.1 gravity oil through a 14/64 in. bean under pressures of 450/450 lbs. Union Oil Co. is preparing to drill S. A. & F. L. No. 38-29 at a point 330 ft. north and 1650 ft. east from the SW corner of sec. 29-15s-18e.

Midway-Sunset Driller Fails

Norwalk Co. well No. 1, sec. 32-31s-23e, was abandoned at 4127 ft. A few oil showings were noted in the Calitroleum and the Intermediate zones were barren. Sands in the lower zone were considered too tight to produce.

Antelope Hills Gets Good Well

Williams Bros. Oil Co. Layman No. 1, sec. 12-28s-19e, completed on the pump at 853 ft. making 150 b/d, clean 21.0 gravity oil. The discovery is to be immediately followed by Nos. 2, 3 and 4. The company also plans to drill Callach No. 1 on sec. 11-25s-18e some 4 miles south of Pyramid Hills.

Tejon Well Yet Flowing

Hilo Oil Co. Hilo-Metzenbaum No. 34-8, sec. 34-11n-19w, is currently producing 55 b/d 16.2 gravity oil cutting 7.0% through a 40/64 in. bean under 200/600 lbs. The company is doing additional drilling in this field. No. 34-6 is in oil sand at 2655 ft. after finding the zone at 2642 ft.

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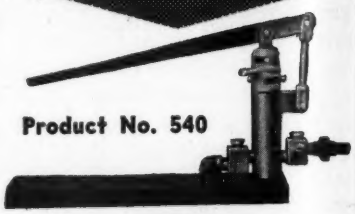

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Jacalitos Field Well Completed

Standard Oil Co. well No. 52-21 sec. 21-21s-15e, completed at 413 ft. flowing 1213 b/d rate clean 35. gravity oil and a half million cu. f of gas. Current production is 25 b/d and 109,000 cu. ft. of ga through a 12/64 in. bean.

Rio Vista Gasser In

Standard Oil Co. completed Ou ton Land Co. No. 5, sec. 10-3n-3e, a 3900 ft. from 56 ft. open flowing 1 925,000 cu. ft. of gas through a 32/6 in bean under 1298 lbs. balance pressures. The company will dri No. 6 at once.

West of the field, on sec. 20-4n-2 the company's Montezuma Comm No. 1 is abandoned at 7400 ft.

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Elwood Area Well Quits

Union Oil Co. abandoned Campbell Ranch No. 1 on sec. 24-4n-29w at a barren depth of 5073 ft.

WANTED

Will buy offset acreage or leases, landowners royalties or overriding interest in any wildcat well drilling or to be drilled in California, subject to our investigation. Western Equipment Co., 120 E. Valley Blvd., El Monte, Calif. tf

Union Starting Two Wildcats

Union Oil Co. is starting two new Coastal area wildcats. The company is grading roads to each site. First under way was Simi No. 5 on sec. 22-3n-17w just inside the Los Angeles county line. The other test is Moran No. 1 in the Hopper Creek area on sec. 1-4n-19w.

Devils Den Driller Quits

C. C. M. O. Co. Bates No. 2, sec. 20-25s-19e bottomed at 9181 ft. and abandoned after tests of showings encountered yielded only water and mud.

C.N.G.A. Appoints Standing Committee Chairmen

Standing committee chairmen for the year 1945-46 were recently appointed by the California Natural Gasoline Association. The appointees will serve in the following capacities: Advisory Committee, M. W. Kibre, General Pet. Corp.; Finance and Budge Committee, R. W. Heath, Signal Oil & Gas Co.; Entertainment Committee, E. A. Brock, Southwest Welding & Mfg. Co.; Membership Committee, Coles Bason, Ingersoll-Rand Co.; Fall Meeting Committee, W. L. Rifenberick, Industrial Engineers, Inc.; Publicity Committee, Harry Ransford, Signal Oil & Gas Co.; Gas Report Committee, Wm. Moeller, Jr., So. California Gas Co.; and Technical Committee, C. L. Hutchings, Tide Water Associated Oil Co.

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Oil Industry To Get German Secrets

(Continued from Page 2)

tion generally, the Deputy Administrator stressed.

One of the teams into which the mission was divided talked with Dr. Paul Schmidt, credited by the Nazis with inventing the motor of the V-1 bomb, he explained. Interrogation of the inventor, before he was turned over to the group investigating jet propulsion and rockets, showed he was working on a new motor capable of operating on unusually low grade fuels.

Mr. Davies paid tribute to the members of the technological mission, some of whom are still in Germany completing the investigation, for their work, which was frequently performed under fire with the advance units of the American armies.

One member of the mission entered a plant on the Rhine and was examining records while a barrage was still being fired over the building in which he was working. Another member, quite inadvertently, he said later, arrived at a plant and "took possession" before the American troops actually arrived.

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Oil Well Supply Buys Neilsen Pump Co.

Oil Well Supply Company, United States Steel Corporation subsidiary, recently announced its purchase of the assets of Neilsen Pump Company of California.

The company, long established factor in California oil production circles, was owned by Karl P. Neilsen and Edward D. Storts, partners. The Neilsen Pump Company was founded in 1926. In 1941 it purchased the Alford Pump Company.

Under the purchase plan, the company's assets will be organized into what will be known as the Neilsen Pump Division of Oil Well Supply Company. It manufactures a line of sub-surface pumps and accessories.

This acquisition establishes Oil Well Supply Company as a California manufacturer of oil field materials.

"No significant changes in personnel or establishment are contemplated," Albert R. Zelt, Vice President, Oil Well Supply Company, Dallas, said. He said Mr. Karl P. Neilsen will remain with the organization as General Manager of the Neilsen Pump Division.

Neilsen Pump Division will continue to emphasize complete field service and high quality products.

Heretofore Neilsen pumps have been sold only in California. Company officials said that as soon as adequate service facilities can be established and field personnel trained, distribution of Neilson products will be inaugurated in other divisions of Oil Well Supply, both domestic and foreign.

Oil Well Supply Company is the oldest manufacturer of oil field materials in the world, having been established in Pennsylvania in 1862. It was one of the pioneers in the oil field materials industry in California, having set up facilities for distribution in 1896 at Los Angeles. Its products have been distributed in that state continuously since before the turn of the century. It became a part of United States Steel in 1930. Fred F. Murray is president of the company.

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